THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Digitally signed by Eric Kim
Date: 2025.07.22 15:57:55 -04'00'

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TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE
KNOXVILLE, TENNESSEE 37914
ERIC KIM, P.E. NO. 127831

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

| SHEET NAME | SHEET NO. |
|---|---|
| SIGNATURE SHEET | ROADWAY-SIGN2 |
| TITLE SHEET | 1 |
| ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS | 1A |
| STANDARD TRAFFIC DESIGN DRAWINGS | 1A2 |
| ESTIMATED ROADWAY QUANTITIES | 2, 2-1 |
| TYPICAL SECTIONS | 2B2 |
| GENERAL NOTES | 2C |
| SPECIAL NOTES | 2D |
| TABULATED QUANTITIES | 2F, 2F1 |
| DETAIL SHEETS | 2G |
| PRESENT LAYOUT | 4 |
| PROPOSED LAYOUT | 4B |
| HAUL ROAD LAYOUT | 4B1 |
| EROSION PREVENTION AND SEDIMENT CONTROL PLANS | 12, 13 |
| ROADWAY CROSS SECTIONS | 19 - 36 |
| TRAFFIC CONTROL PLANS | T2 – T4, T5A, T6A, T8 |

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Jacob Brashear Digitally signed by Jacob Brashear
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TENNESSEE DEPARTMENT OF TRANSPORTATION
7345 REGION LANE
KNOXVILLE, TENNESSEE 37914
JACOB BRASHEAR, P.E. NO. 122645

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

| SHEET NAME | SHEET NO. |
|---|---|
| SIGNATURE SHEET | ROADWAY-SIGN2 |
| SIGNING AND PAVEMENT MARKING PLAN | 15 |
| SIGN SCHEDULE SHEET | 16 |

| YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|
| 2025 | BR-NH-71(39) | ROADWAY-SIGN2 |

REV. 07/21/25: ADDED SHEET.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

Index Of Sheets
SEE SHEET NO. 1A

# STATE OF TENNESSEE
# DEPARTMENT OF TRANSPORTATION
# BUREAU OF ENGINEERING

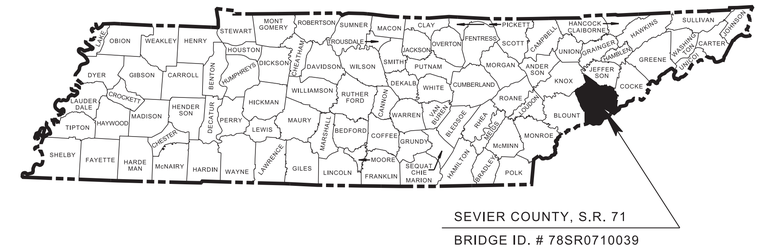
| DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86 | YES X | NO |
|---|---|---|
| WORK ZONE SIGNIFICANCE DETERMINATION | | |
| SIGNIFICANT | YES | NO X |

| TENN. | YEAR | SHEET NO. |
|---|---|---|
| | 2025 | 1 |
| FED. AID PROJ. NO. | BR-NH-71(39) | |
| STATE PROJ. NO. | 78008-3264-94 | |

REV. 07/21/25: ADDED ROAD CLOSURE NOTE FOR SPRING VALLEY ROAD. REMOVED FHWA TN DIVISION ADMINISTRATOR BOX. REVISED CHIEF ENGINEER AND COMMISSIONER SIGNATURES.

# SEVIER COUNTY

SR 71 (US 321): BRIDGE OVER WEST PRONG FORK LITTLE PIGEON RIVER, LM 21.04
IN PIGEON FORGE




PS&E

BRIDGE REPLACEMENT, GRADE, DRAIN, PAVE, AND GUARDRAIL

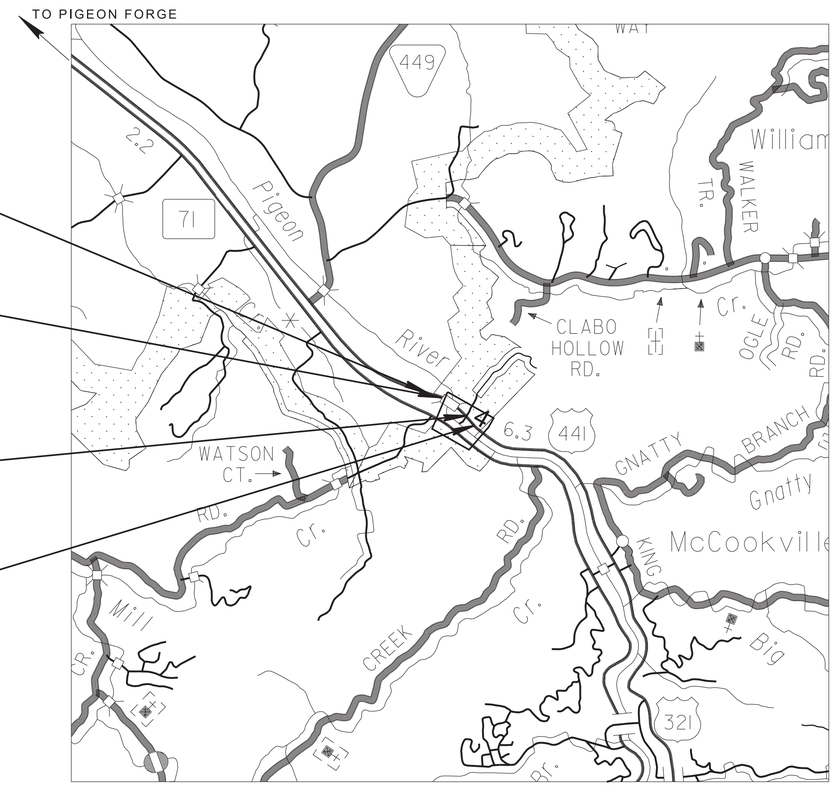
STATE HIGHWAY NO. 71 F.A.H.S. NO. 321

78008-3264-94
END PROJ. NO. BR-NH-71(39) CONST.
STA. 113+80.00
N 533615.0395 E 2698790.7112

78008-2264-94
END PROJ. NO. BR-NH-71(39) R.O.W.
STA. 110+95.23
N 533504.8012 E 2699053.2783

78008-2264-94
BEGIN PROJ. NO. BR-NH-71(39) R.O.W.
STA. 108+28.02
N 533401.3607 E 2699299.6545

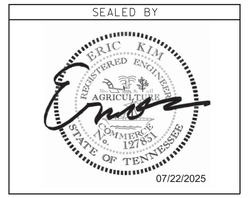
78008-3264-94
BEGIN PROJ. NO. BR-NH-71(39) CONST.
STA. 102+00.00
N 533054.2549 E 2699817.7310




NO EXCLUSIONS

SPRING VALLEY ROAD TO BE CLOSED DURING CONSTRUCTION

SEALED BY




APPROVED: WILL REID, CHIEF ENGINEER

DATE:

APPROVED: WILL REID, COMMISSIONER

## SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER: JOHN BARRETT, P.E.
DESIGNER : AARON HAYS, P.E. CHECKED BY : ERIC KIM, P.E.
P.E. NO. 78008-1264-94 (DESIGN)
PIN NO. 124563.00

0 2000 4000 6000 FEET
SCALE: 1"= 2000'

| | |
|---|---|
| R.O.W. LENGTH | 0.044 MILES |
| ROADWAY LENGTH | 0.148 MILES |
| BRIDGE LENGTH | 0.075 MILES |
| BOX BRIDGE LENGTH | 0.000 MILES |
| BOX BRIDGE LENGTH | 0.000 MILES ▲ |
| PROJECT LENGTH | 0.223 MILES |

▲ Not included in the project length (Non Riding Surface).

S.R. 71
(TRAFFIC DATA RECEIVED 07/03/2024)

| SURVEY 10-15-2018 | TRAFFIC DATA | |
|---|---|---|
| UPDATED 07-15-2020 | ADT (2025) | 17620 |
| UPDATED 01-11-2024 | ADT (2045) | 23260 |
| | DHV (2045) | 2623 |
| | D | 75 - 25 |
| | T (ADT) | 5 % |
| | T (DHV) | 3 % |
| | V | 40 MPH |

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED 09-13-18 USING GEOID 12B MODEL AND DATUM ADJUSTMENT FACTOR OF 1.0001

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 1A |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED ROADWAY-SIGN2 TO ROADWAY INDEX. ADDED STANDARD DRAWING D-PB-2.

# ROADWAY INDEX



NOTE: THE ALPHABETICAL LETTERS “I”, “O” & “Q” ARE NOT USED IN THE NUMBERING OF SHEETS.

# STANDARD ROADWAY DRAWINGS

## STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| RD-A-1 | 02-20-20 | STANDARD ABBREVIATIONS A THROUGH L |
| RD-A-2 | | STANDARD ABBREVIATIONS M THROUGH Z |
| RD-L-1 | 02-20-20 | STANDARD LEGEND |
| RD-L-1A | | STANDARD LEGEND |
| RD-L-2 | 02-20-20 | STANDARD LEGEND FOR UTILITY INSTALLATIONS |
| RD-L-5 | 07-30-24 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |
| RD-L-6 | 02-20-20 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |
| RD-L-7 | 02-20-20 | STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL |

## ROADWAY DESIGN STANDARDS

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| RD01-SE-2 | 10-15-02 | URBAN SUPERELEVATION DETAILS |
| RD01-TS-1 | 02-05-16 | DESIGN STANDARDS FOR LOCAL ROADS AND STREETS |
| RD01-TS-3 | 10-15-02 | DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS |
| RD01-TS-3B | 10-15-02 | DESIGN STANDARDS 4 AND 6 LANE ARTERIALS WITH INDEPENDENT ROADWAYS |
| RD01-TS-6 | 01-07-19 | TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER |
| RD01-S-11 | 04-04-03 | DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT |
| RD01-S-11A | 10-15-02 | ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION |
| RD01-SD-1 | | INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES |
| RD01-SD-2 | | INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION |
| RD01-SD-3 | | INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS |
| RD01-SD-5 | | INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS |
| RD01-SD-6 | | INTERSECTION SIGHT DISTANCE 6-LANE DIVIDED HIGHWAYS |

## PIPE CULVERTS AND ENDWALLS

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| D-PB-1 | 03-01-23 | STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION |
| D-PB-2 | 03-01-23 | STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION |
| D-PB-3 | 11-30-20 | INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION |
| D-PE-4 | 06-28-19 | STRAIGHT CONCRETE ENDWALLS (PIPE SIZES 18" TO 30") |
| D-PEW-1 | | PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES) |
| D-PEW-2 | | PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18” TO 72”, ALL SKEWS, 2:1 & 3:1 SLOPES) |

## CATCH BASINS AND MANHOLES

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| D-CB-12LP | 02-20-20 | LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN FOR USE WITH 6" VERTICAL CURB |
| D-CB-12RA | 01-28-22 | STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN |
| D-CB-42RB | 02-20-20 | STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN |
| D-CB-43R | 02-20-20 | STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN |
| D-CB-99 | 02-20-20 | MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES |
| D-CB-99R | 01-28-22 | MISCELLANEOUS DETAILS FOR ROUND STRUCTURES |
| D-CB-99RA | 10-29-21 | BILL OF STEEL FOR ROUND CATCH BASIN LIDS |
| D-CBB-12A | 06-28-19 | TYPE ‘B’ CAST IRON FRAME, GRATE & VERTICAL INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS |
| D-CBB-12D | 07-07-23 | TYPE "B" CAST IRON FRAME, GRATE & CURB HOOD DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS |
| D-CBB-42 | 10-29-21 | CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS |
| D-MH-2 | 02-20-20 | STANDARD PRECAST NO. 3 MANHOLE |
| D-MH-3 | 02-20-20 | TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE |
| D-MH-4 | 02-20-20 | STANDARD NO. 3 MANHOLE CASTINGS AND STEPS |

## ROADWAY, PAVEMENT APPURTENANCES, AND FENCES

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| RP-I-5 | 05-01-20 | EXAMPLES OF STREET & ALLEY INTERSECTIONS |
| RP-SC-1 | 05-04-22 | SLOPING CONCRETE CURB AND CURB AND GUTTER |
| RP-VC-10 | 03-04-21 | VERTICAL CONCRETE CURBS AND CURB AND GUTTER (FOR 8" TO 12" GUTTER DEPTH) |
| S-F-1 | 03-01-23 | HIGH VISIBILITY FENCE |
| S-RP-2 | 06-28-19 | STANDARD CONCRETE RIGHT-OF-WAY MARKERS |

## MULTIMODAL

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| MM-CR-1 | 06-28-19 | DETECTABLE WARNING SURFACE PLACEMENT ON CURB RAMPS |
| MM-CR-8 | | MONO-DIRECTIONAL SINGLE CROSSWALK CURB RAMP DETAILS |
| MM-CR-9 | | ALTERNATIVE CURB RAMP DETAILS |
| MM-SW-1 | 07-07-23 | DETAILS FOR CONCRETE SIDEWALK |

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07/22/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 1A2 |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED STANDARD DRAWINGS T-SG-2 AND T-SG-3.

# STANDARD TRAFFIC DESIGN DRAWINGS

| DWG. | REV. | DESCRIPTION |
|---|---|---|
| **SIGNS** | | |
| T-S-6 | 02-12-91 | STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS |
| T-S-7 | 02-12-91 | HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES |
| T-S-8 | 07-15-91 | HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS |
| T-S-9 | 06-10-14 | STANDARD LAYOUT GROUND MOUNTED SIGNS |
| T-S-10 | 04-04-12 | STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN |
| T-S-11 | 06-06-11 | DELINEATOR AND MILEPOST DETAILS |
| T-S-16 | 07-02-15 | GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS |
| T-S-17 | 07-11-17 | STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE |
| T-S-19 | 06-12-14 | END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) |
| T-S-20 | 07-11-17 | SIGN DETAILS |
| T-S-23A | 07-11-17 | MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT |
| T-S-23B | 07-19-13 | MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT |
| **SIGNALS** | | |
| T-SG-2 | 06-27-16 | LOOP LEAD-INS, CONDUIT AND PULL BOXES |
| T-SG-3 | 07-11-17 | STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS |
| **PAVEMENT MARKINGS** | | |
| T-M-1 | 01-24-25 | DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS |
| T-M-2 | 01-24-25 | DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS |
| T-M-3 | 01-24-25 | MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS |
| T-M-4 | 01-24-25 | STANDARD INTERSECTION PAVEMENT MARKINGS |
| T-M-5 | 01-24-25 | MARKING DETAIL FOR FREEWAYS |
| T-M-18 | 01-24-25 | FLEXIBLE DELINEATOR DETAILS |
| T-M-18A | 01-24-25 | DELINEATOR MOUNTING DETAILS |
| **WORK ZONES** | | |
| T-WZ-10 | 04-02-12 | ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS |
| T-WZ-16 | 07-30-24 | LANE SHIFT FOR DIVIDED HIGHWAYS AND FREEWAYS |
| T-WZ-18 | 07-07-23 | SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS |
| T-WZ-55 | 10-29-21 | SIDEWALK TRAFFIC CONTROL |
| T-WZ-FAB1 | | FLASHING YELLOW ARROW BOARD |
| T-WZ-PCB1 | 10-10-24 | 10 FOOT PORTABLE CONCRETE BARRIER RAIL |
| T-WZ-PCB2 | 10-01-24 | 20 FOOT PORTABLE CONCRETE BARRIER RAIL |
| T-WZ-PCB2A | 10-01-24 | 20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE |
| T-WZ-PCB3 | 01-28-22 | PORTABLE CONCRETE BARRIER RAIL DETAILS |
| T-WZ-PCB4 | 12-09-22 | PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS |

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DEPARTMENT OF TRANSPORTATION

STANDARD
TRAFFIC DESIGN
DRAWINGS

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY 78008-3264-94 |
|---|---|---|---|---|
| | 105-01 | CONSTRUCTION STAKES, LINES AND GRADES | LS | 1 |
| | 201-01 | CLEARING AND GRUBBING | LS | 1 |
| | 202-02.01 | REMOVAL OF PIPE (48", STA. 105+15.84) | L.F. | 38 |
| | 202-02.02 | REMOVAL OF PIPE (42"X72", STA. 105+21.70) | L.F. | 68 |
| | 202-02.03 | REMOVAL OF PIPE (15" ,STA. 107+01.00) | L.F. | 83 |
| | 202-02.04 | REMOVAL OF PIPE (15" ,STA. 108+04.57) | L.F. | 125 |
| | 202-02.05 | REMOVAL OF PIPE (18" ,STA. 108+70.82) | L.F. | 11 |
| (1)(2)(21)(23) | 203-01 | ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED) | C.Y. | 5953 |
| | 203-04 | PLACING AND SPREADING TOPSOIL | C.Y. | 708 |
| | 203-06 | WATER | M.G. | 32 |
| (3) | 203-50 | CONSTRUCTION OF HAUL ROAD | LS | 1 |
| (16) | 208-01.05 | BROOMING & DEGRASSING SHOULDERS | L.M. | 1 |
| (2) | 209-02.05 | 12" TEMPORARY SLOPE DRAIN | L.F. | 20 |
| (2) | 209-05 | SEDIMENT REMOVAL | C.Y. | 77 |
| (2)(4) | 209-08.02 | TEMPORARY SILT FENCE (WITH BACKING) | L.F. | 4601 |
| (2) | 209-08.08 | ENHANCED ROCK CHECK DAM | EACH | 4 |
| (2) | 209-09.03 | SEDIMENT FILTER BAG (15' X 15') | EACH | 2 |
| (2) | 209-09.43 | CURB INLET PROTECTION (TYPE 4) | EACH | 3 |
| (2) | 209-40.30 | CATCH BASIN PROTECTION (TYPE A) | EACH | 4 |
| (2) | 209-40.33 | CATCH BASIN PROTECTION (TYPE D) | EACH | 1 |
| (2) | 209-40.44 | CATCH BASIN FILTER ASSEMBLY(TYPE 4) | EACH | 2 |
| (2) | 209-65.04 | TEMPORARY IN STREAM DIVERSION | L.F. | 600 |
| (1) | 303-01 | MINERAL AGGREGATE, TYPE A BASE, GRADING D | TON | 4002 |
| (2)(5) | 303-10.01 | MINERAL AGGREGATE (SIZE 57) | TON | 20 |
| (24) | 303-10.04 | MINERAL AGGREGATE (SIZE 57) | TON | 1163 |
| (1) | 307-01.08 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 | TON | 269 |
| (1) | 307-02.01 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A | TON | 675 |
| (1) | 307-02.08 | ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2 | TON | 364 |
| (1)(10) | 402-01 | BITUMINOUS MATERIAL FOR PRIME COAT (PC) | TON | 8.7 |
| (1)(10) | 402-02 | AGGREGATE FOR COVER MATERIAL (PC) | TON | 20 |
| (1)(10) | 403-01 | BITUMINOUS MATERIAL FOR TACK COAT (TC) | TON | 6.5 |
| (1) | 411-01.10 | ACS MIX(PG64-22) GRADING D | TON | 104 |
| (1) | 411-02.10 | ACS MIX(PG70-22) GRADING D | TON | 733 |
| (1) | 415-01.01 | COLD PLANING BITUMINOUS PAVEMENT | TON | 518 |
| (6) | 602-01 | STRUCTURAL STEEL | LB. | 245 |
| (6) | 604-01.01 | CLASS A CONCRETE (ROADWAY) | C.Y. | 3 |
| (8) | 607-03.02 | 18" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 364 |
| (8) | 607-09.02 | 48" CONCRETE PIPE CULVERT (CLASS III) | L.F. | 144 |
| | 611-01.03 | MANHOLES, > 8' - 12' DEPTH | EACH | 1 |
| | 611-07.01 | CLASS A CONCRETE (PIPE ENDWALLS) | C.Y. | 10 |
| | 611-07.02 | STEEL BAR REINFORCEMENT (PIPE ENDWALLS) | LB. | 386 |
| | 611-12.01 | CATCH BASINS, TYPE 12, 0' - 4' DEPTH | EACH | 1 |
| | 611-12.02 | CATCH BASINS, TYPE 12, > 4' - 8' DEPTH | EACH | 2 |
| | 611-42.02 | CATCH BASINS, TYPE 42, > 4' - 8' DEPTH | EACH | 1 |
| | 611-42.04 | CATCH BASINS, TYPE 42, > 12' - 16' DEPTH | EACH | 1 |
| | 611-43.02 | CATCH BASINS, TYPE 43, > 4' - 8' DEPTH | EACH | 1 |
| | 701-01.01 | CONCRETE SIDEWALK (4 ") | S.F. | 6020 |
| | 701-02.01 | CONCRETE CURB RAMP (RETROFIT) | S.F. | 125 |
| | 701-02.03 | CONCRETE CURB RAMP | S.F. | 400 |
| | 702-01 | CONCRETE CURB | C.Y. | 3 |
| | 702-03 | CONCRETE COMBINED CURB & GUTTER | C.Y. | 40 |
| | 705-06.02 | W BEAM GR (TYPE 2) MASH TL3 (LONG POST) | L.F. | 139 |
| | 705-06.10 | GR TERMINAL TRAILING END (TYPE 13) MASH TL3 | EACH | 2 |
| | 705-06.20 | TANGENT ENERGY ABSORBING TERM MASH TL-3 | EACH | 2 |
| | 705-06.25 | THRIE BEAM BRIDGE TRANSITION MASH TL-3 | EACH | 2 |
| | 706-10.80 | MICHIGAN AND MODIFIED MICHIGAN END SHOE | EACH | 2 |
| (2) | 707-08.11 | HIGH-VISIBILITY CONSTRUCTION FENCE | L.F. | 576 |
| | 708-02.01 | MARKERS (CONCRETE R.O.W. POSTS) | EACH | 4 |
| (2)(7) | 709-05.05 | MACHINED RIP-RAP (CLASS A-3) | TON | 150 |
| (20) | 709-05.06 | MACHINED RIP-RAP (CLASS A-1) | TON | 4 |
| (9) | 709-05.08 | MACHINED RIP-RAP (CLASS B) | TON | 3215 |
| | 712-01 | TRAFFIC CONTROL | LS | 1 |

## ESTIMATED ROADWAY QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | QUANTITY 78008-3264-94 |
|---|---|---|---|---|
| (10) | 712-02.10 | PORTABLE BARRIER RAIL (MASH TL-3) | L.F. | 2820 |
| (10) | 712-02.12 | PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3) | L.F. | 2060 |
| (10)(17) | 712-02.60 | TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3) | EACH | 6 |
| (10) | 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 182 |
| | 712-04.50 | BARRIER RAIL DELINEATOR | EACH | 214 |
| | 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | 91 |
| | 712-06 | SIGNS (CONSTRUCTION) | S.F. | 661 |
| | 712-07.02 | TEMPORARY BARRICADES (TYPE II) | L.F. | 10 |
| | 712-07.03 | TEMPORARY BARRICADES (TYPE III) | L.F. | 72 |
| | 712-08.03 | ARROW BOARD (TYPE C) | EACH | 1 |
| | 712-09.04 | REMOVABLE PAVEMENT MARKING (STOP LINE) | L.F. | 114 |
| | 713-01.01 | CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS) | C.Y. | 2 |
| | 713-01.02 | STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS) | LB. | 225 |
| | 713-02.14 | FLEXIBLE DELINEATOR (WHITE) | EACH | 40 |
| | 713-02.15 | FLEXIBLE DELINEATOR (YELLOW) | EACH | 45 |
| | 713-11.02 | PERFORATED/KNOCKOUT SQUARE TUBE POST | LB. | 482 |
| | 713-11.21 | P POST SLIP BASE | EACH | 8 |
| | 713-13.02 | FLAT SHEET ALUMINUM SIGNS (0.080" THICK) | S.F. | 23 |
| | 713-13.03 | FLAT SHEET ALUMINUM SIGNS (0.100" THICK) | S.F. | 90 |
| | 713-14 | EXTRUDED ALUMINUM PANEL SIGNS | S.F. | 6 |
| | 713-15 | REMOVAL OF SIGNS, POSTS AND FOOTINGS | LS | 1 |
| | 716-01.11 | RAISED PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR LENS) | EACH | 87 |
| | 716-01.23 | SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR) | EACH | 32 |
| (19) | 716-01.30 | REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER | EACH | 32 |
| (22) | 716-02.04 | PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING) | S.Y. | 15 |
| (22) | 716-02.05 | PLASTIC PAVEMENT MARKING (STOP LINE) | L.F. | 90 |
| (22) | 716-02.08 | PLASTIC PAVEMENT MARKING (8" DOTTED LINE) | L.F. | 100 |
| | 716-05.20 | PAINTED PAVEMENT MARKING (6" LINE) | L.M. | 3.6 |
| | 716-05.22 | PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK) | L.F. | 45 |
| | 716-08.20 | REMOVAL OF PAVEMENT MARKING (LINE) | L.M. | 2.6 |
| (11) | 716-12.02 | ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE) | L.M. | 2 |
| | 717-01 | MOBILIZATION | LS | 1 |
| (25) | 730-03.20 | INSTALL PULL BOX (TYPE A) | EACH | 2 |
| (25) | 730-12.02 | CONDUIT 2" DIAMETER (PVC) | L.F. | 100 |
| (25) | 730-14.01 | SHIELDED DETECTOR CABLE | L.F. | 230 |
| (25) | 730-14.02 | SAW SLOT | L.F. | 600 |
| (25) | 730-14.03 | LOOP WIRE | L.F. | 1500 |
| | 740-07.04 | GEOGRID REINFORCEMENT TYPE 2 | S.Y. | 1268 |
| (2)(12) | 740-10.03 | GEOTEXTILE (TYPE III)(EROSION CONTROL) | S.Y. | 455 |
| | 740-10.04 | GEOTEXTILE (TYPE IV)(STABILIZATION) | S.Y. | 591 |
| (2) | 740-11.02 | TEMPORARY SEDIMENT TUBE 12IN | L.F. | 2736 |
| (2)(13) | 801-01.07 | TEMPORARY SEEDING (WITH MULCH) | UNIT | 76 |
| (2)(14) | 801-01.38 | NATVE SEED MX FINAL STABLIZATN OF SLOPES | UNIT | 3 |
| (2)(15) | 801-03 | WATER (SEEDING & SODDING) | M.G. | 16 |
| (2)(18) | 803-01 | SODDING (NEW SOD) | S.Y. | 4247 |

SEE SHEET 2-1 FOR FOOTNOTES

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 2 |

REV. 07/21/25: REVISED ITEM NOS. 203-01, 712-02.12, 712-02.60, 712-04.01, 712-04.50, 712-05.01, AND 716-05.20.
ADDED ITEM NOS. 730-03.20, 730-12.02, 730-14.01, 730-14.02, AND 730-14.03.
REMOVED ITEM NO. 716-09.94.
ADDED FOOTNOTES TO ITEM NOS. 303-10.04, 730-03.20, 730-12.02, 730-14.01, 730-14.02, AND 730-14.03.
RENUMBERED FOOTNOTES.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

# FOOTNOTES

(1) SEE SHEETS 2F AND 2F1 FOR MORE INFORMATION.

(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(3) HAUL ROAD SHALL BE CONSTRUCTED WITHIN PROPOSED RIGHTS-OF-WAY AND EASEMENTS WITHIN THE PROJECT LIMITS AS DEFINED IN THE CONTRACT PLANS. PAYMENT OF THIS ITEM INCLUDES ALL REQUIREMENTS FOR INSTALLATION INCLUDING GRADING, ROCK, GEOTEXTILE, AND 57 STONE NEEDED FOR BUILDING OF THE HAUL ROAD, MAINTENANCE OF THE HAUL ROAD DURING THE LIFE OF THE PROJECT, AND THE REMOVAL OF THE HAUL ROAD TO PREEXISTING CONDITIONS INCLUDING SEEDING AND STRAWING UPON COMPLETION OF THE HAUL ROAD REMOVAL. NO ADDITIONAL COMPENSATION WILL BE MADE FOR CLEARING, SURVEYING OR INCIDENTALS DUE TO THE LOCATION CHOSEN BY THE CONTRACTOR FOR ACCESS TO THE SITE. THE CONTRACTOR IS REQUIRED TO SUBMIT A PROPOSED LOCATION AND PLAN FOR REVIEW AND APPROVAL TO THE TDOT MANAGER PRIOR TO CONSTRUCTION OF HAUL ROAD.

(4) INCLUDES 194 L.F. FOR SEDIMENT FILTER BAG.

(5) INCLUDES 20 TONS FOR SEDIMENT FILTER BAG.

(6) TO BE USED FOR 5' X 19' CONCRETE GUARDRAIL FOOTING TO AVOID 16" WATER LINE.

(7) FOR TEMPORARY CONSTRUCTION EXITS

(8) BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.

(9) INCLUDES 8 TONS FOR RIP-RAP APRON FOR 18" PIPE (STA. 104+88.39), 161 TONS FOR RIP-RAP APRON FOR 48" PIPE (STA. 105+22.39), AND 3046 TONS FOR RIP-RAP AT BRIDGE ABUTMENTS.

(10) TO BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.

(11) CONTRACTOR SHALL USE THE EXTRUDED RIBBON METHOD FOR APPLICATION.

(12) INCLUDES 258 S.Y. FOR TEMPORARY CONSTRUCTION EXITS, 192 S.Y. FOR SEDIMENT FILTER BAG, AND 5 S.Y. FOR ROCK FLUME.

(13) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN THE COST OF SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

(14) PERMANENT STABILIZATION WITH NATIVE OR NATURALIZED PERENNIAL VEGETATION IS REQUIRED IN ALL AREAS AUTHORIZED FOR TEMPORARY AND PERMANENT IMPACTS TO STREAMS AND RIPRARIAN AREAS, INCLUDING ADJACENT BUFFER ZONES WITHIN 60 FT OF THE EDGE OF WATER. THE APPROPRIATE SEED MIXTURE FOR THE REGION AND SITE CONDITIONS SHALL BE 7-9-1 (PREFERRED SEED MIXES USING NATIVES OR NATURALIZED PLANS AND PLANTING DATES) FOUND IN CHAPTER 7.9 (PERMANENT VEGETATION) OF THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK 4TH EDITION.

(15) INCLUDES 16 THOUSAND GALLONS TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(16) INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK. SEE SHEET NO. 2C, FINAL PAVEMENT MARKING NOTE (2) FOR MORE INFORMATION.

(17) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS SHOWN ON THE MANUFACTURER'S DRAWING.

(18) INCLUDES 359 S.Y. FOR SPECIAL DITCHES. SEE SHEET 2F FOR TABULATION.

(19) ANY DAMAGE OCCURRED DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATIFACTION OF THE TDOT OPERATIONS DISTRICT ENGINEER.

(20) TO BE USED FOR ROCK FLUME. SEE DETAIL SHEET 2G FOR MORE INFORMATION.

(21) SEE GRADING SPECIAL NOTES ON SHEET 2D.

(22) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.

(23) INCLUDES 41 C.Y. FOR TEMPORARY BERM (18" BERM - 4.875 C.Y./L.F.) AND 21 C.Y. FOR TEMPORARY CONSTRUCTION EXITS.

(24) TO BE USED AS BACKFILL UNDER PAVEMENT AT BRIDGE ENDS.

(25) TO BE USED FOR TRAFFIC COUNTER. SEE SHEETS 2D, 2G, AND 4B FOR ADDITIONAL INFORMATION.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 2-1 |
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REV. 07/21/25: REMOVED FOOTNOTE 19.
ADDED FOOTNOTES 24 AND 25.
RENUMBERED FOOTNOTES.

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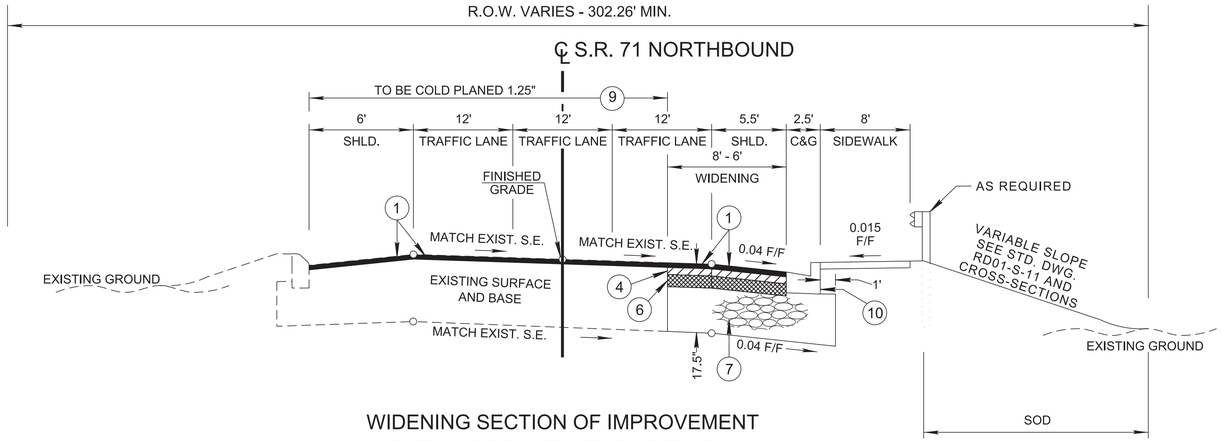
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES

SEE SHEET NO. 2B FOR PAVEMENT SCHEDULE

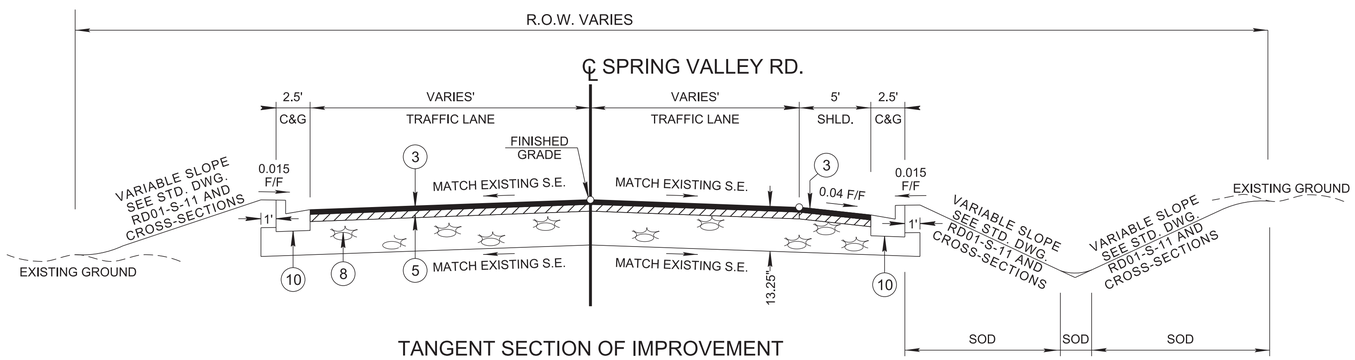
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 2B2 |
| PS&E | 2025 | BR-NH-71(39) | 2B2 |
| | | | |
| | | | |

REV. 07/21/25: REVISED NOTES FOR HAUL ROAD TYPICAL.



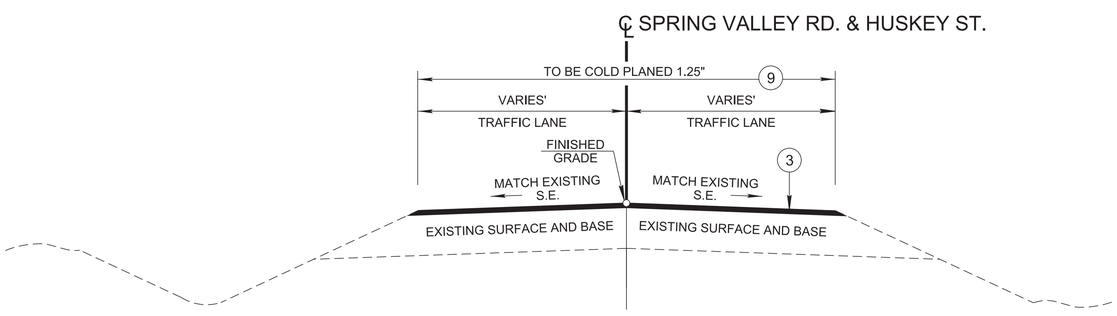

## WIDENING SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD01-TS-3B AND RD01-TS-6)
FROM STA. 112+80.00 TO STA. 113+10.00
FROM STA. 112+80.00 TO STA. STA. 113+09.05 (SIDEWALK - RIGHT)
FROM STA. 113+10.00 TO STA. 113+80.00 (COLD PLANE AND RESURFACING ONLY)



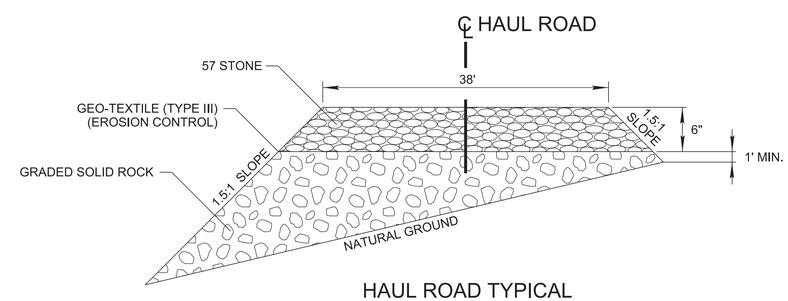

## TANGENT SECTION OF IMPROVEMENT

(BASED ON STD. DWG. RD01-TS-1)
FROM STA. 20+15.27 TO STA. 20+61.00




## RESURFACING SECTION OF IMPROVEMENT

SPRING VALLEY RD. - FROM STA. 20+61.00 TO STA. 20+93.00
HUSKEY ST. - FROM STA. 51+10.00 TO STA 54+00.00




## HAUL ROAD TYPICAL

NOTE: IF CONSTRUCTION IN AREAS THAT ARE EITHER DRY OR UNSATURATED, HAUL ROAD SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING MATERIALS:

- MACHINED RIP-RAP (CLASS A-1)
- MACHINED RIP-RAP (CLASS B)
- MACHINED RIP-RAP (CLASS C)

IF CONSTRUCTED IN WATER OR IN AN AREA WITHIN THE FLOODPLAIN, IN THE CASE OF A 5-YEAR STORM EVENT, HAUL ROAD SHALL BE CONSTRUCTED OF BORROW EXCAVATION (GRADED SOLID ROCK).

NOTE: HAUL ROADS TO BE CONSTRUCTED AS DESIGNED. ANY ALTERATION TO THE HAUL ROAD DESIGN SHALL BE REVIEWED AND APPROVED BY THE TDOT ENGINEER.

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DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 2C |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED SIGNALIZATION GENERAL NOTE (7).

# GENERAL NOTES

## GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## SEEDING AND SODDING

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

## GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(3) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL

## DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR PIPE CULVERTS AND STORM SEWERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(3) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(4) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(5) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT WILL BE MADE DUE TO SUCH CHANGE.

(6) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

## MISCELLANEOUS

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## PAVEMENT MARKINGS

### TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6” LINE), L.M.

### FINAL PAVEMENT MARKING

(2) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:

a. SHOULDERS SHALL BE BROOMED AND DE-GRASSED AND MATERIAL SHALL BE PICKED UP AND REMOVED. THIS WILL BE PAID FOR UNDER ITEM NO. 208-01.05.

b. REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(3) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6” ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

### DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(4) THE PAVEMENT MARKING ON THE LANE SHIFT FOR LANE LINES AND EDGE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6” LINE), L.M.

(5) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

### SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

(6) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

## PAVEMENT

### PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

(3) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

## SIGNING

(1) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE. ALL EXTRUDED PANEL SIGNS SHALL BE ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DIRECT APPLIED OR DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(2) FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.

(3) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE TRAFFIC DESIGN DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

(4) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(5) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(6) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC DESIGN DIVISION, SIGNING SECTION (TDOT.TrafficDesign.SignsandMarking@tn.gov) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.

(7) ALL SIGNS MARKED “TO BE REMOVED” ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM NO. 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(8) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(9) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(10) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(11) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

(12) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

## SIGNALIZATION

(7) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 2D |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED SIGNALIZATION SPECIAL NOTES.

# SPECIAL NOTES

## GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM NO. 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

## SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SODDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 203-04.

## DEMOLITION

### DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

## MULTIMODAL

(1) DURING CONSTRUCTION, IF THE CONSTRUCTION SUPERVISOR IDENTIFIES CURB RAMP LOCATIONS WITHIN THE PROJECT LIMITS WHERE THE TDOT ROADWAY STANDARDS CANNOT BE USED DUE TO SITE LIMITATIONS, A SKETCH OR PICTURE, SHOWING EXISTING CONDITIONS AS WELL AS PROPOSED MODIFICATIONS SHOULD BE SUBMITTED TO THE REGIONAL PROJECT DEVELOPMENT OFFICE THREE WEEKS PRIOR TO THE BEGINNING OF CURB RAMP CONSTRUCTION. THE OFFICE WILL REVIEW AND EVALUATE THE LOCATIONS TO DEVELOP PROPER CURB RAMP DESIGN THAT WILL MEET REGULATIONS.

## SIGNING

(1) THE CONTRACTOR SHALL ENSURE THAT ALL TOD SIGNS ARE MAINTAINED AND VISIBLE TO MOTORISTS THROUGHOUT ALL PHASES OF CONSTRUCTION OR AS DIRECTED BY THE TDOT ENGINEER.

## SIGNALIZATION

(1) CONTRACTOR SHALL REMOVE AND RELOCATE THE EXISTING TRAFFIC CABINET AS SHOWN IN THE PLANS. ANY DAMAGE TO THE CABINET DURING REMOVAL SHALL BE AT THE CONTRACTOR'S EXPENSE.

(2) PRIOR TO THE CONTRACTOR'S REMOVAL AND RELOCATION OF THE TRAFFIC CABINET, THE TRAFFIC COUNTER AND MODEM SHALL BE REMOVED BY STATE TRAFFIC COUNTER PERSONNEL.

(3) CONTRACTOR SHALL SUPPLY AND INSTALL ALL RELATED EQUIPMENT SO THAT ONCE A TRAFFIC COUNTER AND MODEM ARE INSTALLED BY THE STATE'S PROJECT PLANNING DIVISION'S TRAFFIC COUNTER PERSONNEL, THE COUNT STATION WILL BE FULLY OPERATIONAL.

(4) THE CABINET SHALL BE POLE MOUNTED TO A 4" GALVANIZED, RIGID CONDUIT POLE WITH THE BOTTOM OF THE CABINET AT LEAST 36" ABOVE GROUND LEVEL. TOP OF THIS POLE SHALL BE AT LEAST EIGHT (8') FEET ABOVE THE GROUND. THE COST OF THE 4" GALVANIZED, RIGID CONDUIT POLE SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

(5) A SMALL ELECTRICAL BOX HOUSING A 20 AMP CIRCUIT BREAKER SHALL BE LOCATED ON THE 4" GALVANIZED CONDUIT POLE, BETWEEN THE POWER SOURCE AND CABINET.

(6) ALL LOOPS SHALL BE FIVE FEET BY SEVEN FEET (5' X 7') AND TYPICAL IN SIZE WITH THREE (3) TURNS OF LOOP WIRE.

(7) ALL LOOP WIRES AND SHIELDED DETECTOR CABLES SHALL TERMINATE IN THE CABINET CONNECTED TO THE TERMINAL STRIP.

(8) EACH LOOP DETECTOR LEAD-IN (OR SHIELDED DETECTOR CABLE) SHALL BE MARKED WITH LANE IDENTIFICATION, DENOTING THE LANE AND POSITION IN THE LANE FOR EACH LOOP (SUCH AS NB-1 FOR NORTHBOUND 1, ETC.).

(9) FOR QUESTIONS CONCERNING ANY OF THE INSTALLATION OF THE COUNTER EQUIPMENT, PLEASE CONTACT STANLEY DUNN OR RAY BARTON AT 615-350-4571 OR 615-350-4570. CONTRACTOR SHALL NOTIFY EITHER OF THESE TWO TO REPORT THAT WORK HAS BEEN COMPLETED SO THEY CAN FINISH THE INSTALLATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 2F |
| PS&E | 2025 | BR-NH-71(39) | 2F |
| | | | |
| | | | |

REV. 07/21/25: REVISED INSIDE DIAMETER DRAINAGE CODE #8 (TYPE 42 C.B.).

## CATCH BASINS AND MANHOLES

| SHEET NO. | LOCATION | STATION | OFFSET (FT.) | DRAINAGE CODE | GRATE ELEV. | INVERT ELEV. | DEPTH (FT.) | INSIDE DIM. | STANDARD DRAWING NO. | PAY ITEMS TYPE 12 611-12.01 0'-4' | TYPE 12 611-12.02 4'-8' | TYPE 14 611-14.01 0'-4' | TYPE 14 611-14.02 4'-8' | TYPE 3 611-01.03 8'-12' | TYPE 42 611-42.02 4'-8' | TYPE 42 611-42.03 8'-12' | TYPE 42 611-42.04 12'-16' | TYPE 43 611-43.02 4'-8' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4B | SR71 | 104+98.12 | 40.04 | 1 | 1048.01 | 1040.98 | 7.03 | 84" DIA | D-CB-42RB | | | | | | 1 | | | |
| 4B | SR71 | 105+13.79 | 33.78 | 2 | 1052.07 | 1047.57 | 4.50 | 48" DIA | D-CB-12RA | | 1 | | | | | | | |
| 4B | SR71 | 105+84.82 | 37.49 | 3 | 1052.30 | 1045.70 | 6.60 | 48" DIA | D-CB-12RA | | 1 | | | | | | | |
| 4B | SR71 | 106+50.00 | 44.56 | 4 | 1048.18 | 1043.81 | 4.37 | 96" DIA | D-CB-43R | | | | | | | | | 1 |
| 4B | SR71 | 107+41.03 | 36.43 | 5 | 1051.60 | 1042.28 | 9.32 | 60" DIA | D-MH-2 | | | | | 1 | | | | |
| 4B | SR71 | 107+40.00 | 25.50 | 6 | 1050.96 | 1047.19 | 3.77 | 32" X 32" | D-CB-12LP | 1 | | | | | | | | |
| 4B | SR71 | 105+10.00 | 98.10 | 8 | 1055.26 | 1041.88 | 13.38 | 72" DIA | D-CB-42RB | | | | | | | | 1 | |
| TOTALS | | | | | | | | | | 1 | 2 | | | 1 | 1 | | 1 | 1 |

## CROSS DRAIN \ STORM DRAIN ENDWALLS

| LOCATION \ SHEET NO. | STATION | OFFSET (FT.) | SKEW | CODE | TYPE | STANDARD DRAWING NO. | RIP-RAP CLASS "B" 709-05.08 (TON) | PROTECTED ENDWALLS CLASS "A" CONCRETE 611-07.01 (C.Y.) | STEEL BAR REINFORCING 611-07.02 (LB.) | SAFETY ENDWALLS ( ITEM NO. 611-07.54 THRU 611-07.71 SERIES ) 18 IN. 3:1 07.54 (EACH) | 18 IN. 4:1 07.55 (EACH) | 18 IN. 6:1 07.56 (EACH) | 24" IN. 3:1 07.57 (EACH) | 24" IN. 4:1 07.58 (EACH) | 24" IN. 6:1 07.59 (EACH) | 30" IN. 3:1 07.60 (EACH) | 30" IN. 4:1 07.61 (EACH) | 30" IN. 6:1 07.62 (EACH) | 36" IN. 3:1 07.63 (EACH) | 36" IN. 4:1 07.64 (EACH) | 36" IN. 6:1 07.65 (EACH) | 42" IN. 3:1 07.66 (EACH) | 42" IN. 4:1 07.67 (EACH) | 42" IN. 6:1 07.68 (EACH) | 48" IN. 3:1 07.69 (EACH) | 48" IN. 4:1 07.70 (EACH) | 48" IN. 6:1 07.71 (EACH) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4B | 105+22.39 | -46.34 | 74º | EW | "PEW" | D-PEW-1 | 161 | 8 | 296 | | | | | | | | | | | | | | | | | | |
| 4B | 104+88.39 | 49.46 | 25º | EW | "ST" | D-PE-4 | 8 | 1 | 45 | | | | | | | | | | | | | | | | | | |
| 4B | 108+75.00 | 38.82 | 90º | EW | "ST" | D-PE-4 | | 1 | 45 | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | 169 | 10 | 386 | | | | | | | | | | | | | | | | | | |

## STORM DRAINAGE PIPES

| | SHEET NO. | INLET CODE NO. | INLET OUTLET ELEV. | OUTLET CODE NO. | OUTLET INLET ELEV. | % GRADE | REINFORCED CONCRETE PIPE - CLASS, ITEM NO., SIZE & LENGTH (FT.) | CLASS III 607-03.02 18" | CLASS III 607-05.02 24" | CLASS III 607-06.02 30" | CLASS III 607-07.02 36" | CLASS III 607-09.02 48" | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (1) | 4B | 8 | 1041.88 | 1 | 1041.05 | 1.50% | | | | | | 56' | |
| (1) | 4B | 1 | 1040.98 | 7 | 1040.55 | 0.50% | | | | | | 88' | |
| | 4B | 2 | 1047.57 | 3 | 1045.86 | 2.50% | | 69' | | | | | |
| | 4B | 3 | 1045.70 | 4 | 1044.14 | 2.50% | | 64' | | | | | |
| (1) | 4B | 4 | 1043.81 | 5 | 1042.49 | 1.50% | | 89' | | | | | |
| (1) | 4B | 6 | 1047.19 | 5 | 1046.97 | 2.60% | | 9' | | | | | |
| (1) | 4B | 5 | 1042.28 | 10 | 1040.30 | 1.50% | | 133' | | | | | |
| | TOTALS | | | | | | | 364' | | | | 144' | |

(1) INCLUDES THE COST OF REMOVAL OF CONFLICTING DRAINAGE STRUCTURES OR DRAINAGE STRUCTURES WITHIN THE EXCAVATION LIMIT, AS DIRECTED BY THE OPERATIONS DISTRICT ENGINEER.

## RIGHT OF WAY MARKERS

| SHEET NO. | Item #: 708-02.01 QUANTITIES "A" | "B" | "C" | TOTALS |
|---|---|---|---|---|
| 4A | 4 | | | 4 |
| TOTALS | 4 | | | 4 |

## SPECIAL DITCHES

| ROADWAY | STATION FROM | STATION TO | SIDE | DETAIL NO. | CONFIGURATION FORE (H/V) | BOTTOM WIDTH (FT.) | BACK (H/V) | SODDING NEW SOD 803-01 (S.Y.) |
|---|---|---|---|---|---|---|---|---|
| S.R. 71 (NORTHBOUND) | 106+10.00 | 106+50.00 | RT. | 3A | 2:1 | 0 | 2:1 - 3:1 | 87 |
| S.R. 71 (NORTHBOUND) | 106+50.00 | 108+50.00 | RT. | 3B | 3:1 | 0 | 3:1 | 272 |
| TOTALS | | | | | | | | 359 |

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 2F1 |
| PS&E | 2025 | BR-NH-71(39) | 2F1 |
| | | | |
| | | | |

REV. 07/21/25: REVISED MAINLINE EARTHWORK VOLUMES IN ESTIMATED GRADING QUANTITIES TABULATION. REVISED NOTE FOR VOLUME OF EXCESS MATERIAL.

## ESTIMATED GRADING QUANTITIES

| DESCRIPTION | UNADJUSTED VOLUMES (CY) | | ADJUSTED VOLUMES (CY) |
|---|---|---|---|
| | EXC. | EMB. | EXC. |
| MAINLINE | 4894 | 606 | 4650 |
| SIDE ROADS | 134 | 27 | 128 |
| PVT. DRIVES, BUSINESS AND FIELD ENTRANCES | 0 | 17 | |
| INDEPENDENT DITCHES | 0 | 0 | |
| TEMPORARY CONSTRUCTION EXITS | 0 | 0 | |
| OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...) | 0 | 0 | |
| TOPSOIL (EMB.) | 313 | | |
| TOPSOIL (EXC.) | 550 | | |
| TOPSOIL TOTALS (SEE TOPSOIL TABLE) | | | |

| ROCK (C.Y.) | | TOTALS (C.Y.) | | | | |
|---|---|---|---|---|---|---|
| EXC. | EMB. | EXC. (UNCL.) | EMB. (UNCL.) | EXC (COMMON) | EXC. (AVAIL.) | EXC. (ADJ.) |
| 0 | 0 | 5891 | 650 | 5891 | 5028 | 4777 |

**BALANCE SUMMARY**

SHRINK = 5 % SWELL = 5 %

| EXC. | | EMB. |
|---|---|---|
| 4777 | VS. | 650 |
| AVAILABLE | = | 4127 |
| WASTE MATERIAL | = | 4334 |

NOTE: THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SATISFACTORY DISPOSAL OF 4334 C.Y. OF EXCESS MATERIAL.

## TOPSOIL

### IF EXISTING TOPSOIL IS SUITABLE FOR REUSE

| PROPOSED SLOPE AREA S.F. | EXISTING TOPSOIL (EXC.) | EXISTING TOPSOIL (EMB.) | EXISTING TOPSOIL (TOTAL) C.Y. | REQUIRED TOPSOIL C.Y. | PLACING TOPSOIL 203-04 C.Y. | FURNISHED TOPSOIL 203-07 C.Y. | EXCESS TOPSOIL C.Y. |
|---|---|---|---|---|---|---|---|
| 38224 | 550 | 313 | 863 | 708 | 708 | 0 | 155 |

NOTE: PROPOSED SLOPE AREA INCLUDES AREA TO BE SCARIFIED.

## PROPOSED GUARDRAIL

| SHEET NO. | LOCATION | SIDE | | STATIONS | | GUARDRAIL | | | TERMINAL ANCHORS | | GUARDRAIL FOOTING | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | THRIE BEAM BRIDGE TRAN. MASH TL-3 (20.65') 705-06.25 (EACH) | W BEAM GR (TYPE 2) MASH TL3 (LONG POST) 705-06.02 (L.F.) | MICHIGAN END SHOE (2.5') 706-10.80 (EACH) | TYPE 13 MASH TL3 (9.375') 705-06.10 (EACH) | TYPE 38 MASH TL3 (46.875') 705-06.20 (EACH) | CLASS A CONCRETE (ROADWAY) 604-01.01 (C.Y.) | STRUCTURAL STEEL (ROADWAY) 602-01 (LB.) | |
| | | LT | RT | FROM | TO | | | | | | | | |
| 4B | SR 71 | X | | 106+05.50 | 107+24.84 | 1 | 50 | | | 1 | | | |
| 4B | SR 71 | | X | 107+57.83 | 108+37.95 | 1 | 13 | | | 1 | | | |
| 4B | SR 71 | X | | 111+38.44 | 111+80.41 | | 38 | 1 | 1 | | | | |
| 4B | SR 71 | | X | 112+50.45 | 112+97.54 | | 38 | 1 | 1 | | 3 | 245 | GR FOOTING BASED ON 19' X 5' SLAB. |
| TOTALS | | | | | | 2 | 139 | 2 | 2 | 2 | 3 | 245 | |

## CURB RAMP TABULATION

| ROADWAY | | LOCATION | | | | | | | | SIGNALIZED | STANDARD DRAWING NO. | CURB RAMP (RETROFIT) ITEM NO. 701-02.01 S.F. | CURB RAMP (NEW) ITEM NO. 701-02.03 S.F. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAINLINE | INTERSECTING | STATION or LOG MILE (L.M.) | LEFT | MEDIAN | RIGHT | QUADRANT | | | | YES / NO | | | | |
| | | | | | | N. | S. | E. | W. | | | | | |
| S.R. 71 | SPRING VALLEY RD. | 105+98.09 | | | X | X | | | X | NO | MM-CR-8 | | 150 | |
| S.R. 71 | SPRING VALLEY RD. | 105+98.09 | | | X | X | | | X | NO | MM-CR-9 | | 150 | |
| S.R. 71 | BUSINESS ENTRANCE | 113+30.00 | | | X | X | | X | | NO | MM-CR-8 | | 100 | |
| S.R. 71 | BUSINESS ENTRANCE | 113+30.00 | | | X | X | | X | | NO | MM-CR-1 | 125 | | |
| | | | | | | | | | | | TOTAL | 125 | 400 | |

## PAVEMENT QUANTITIES

| LOCATION (ROADWAY) | ALTERNATE | TYPE - GRADE - PAY ITEM (TON) | | | | | | | | | | | | | | | | | | | COLD PLANING BITUMINOUS PLANT MIX | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MINERAL AGG. | BITUMINOUS PLANT MIX BASE (HOT MIX) | | | | | | | | PRIME COAT | | TACK COAT | ASPHALTIC CONCRETE SURFACE (HOT MIX) | | | | | | | | | |
| | | | PG-64-22 | | | | PG-70-22 | | | | | | | PG-64-22 | | | PG 70-22 | | | | | | |
| | | D | A | A-S | B-M | B-M2 | A | A-S | B-M | B-M2 | | | | D | E | TL | D | E | OGFC | TL | TON | S.Y. | C.Y. |
| | | 303-01 | 307-01.01 | 307-01.20 | 307-01.07 | 307-01.08 | 307-02.01 | 307-01.21 | 307-02.21 | 307-02.08 | 402-01 | 402-02 | 403-01 | 411-01.10 | 411-01.07 | 411-03.07 | 411-02.10 | 411-02.11 | 411-03.22 | 411-03.08 | 415-01.01 | 415-01.02 | 415-01.03 |
| S.R. 71 | | 2760 | | | | | 675 | | | 364 | 5.0 | 18.0 | 2.0 | | | | 240 | | | | | | |
| (1) S.R. 71 (RESURFACING) | | | | | | | | | | | | | 2.5 | | | | 365 | | | | 361 | | |
| SPRING VALLEY RD. | | 249 | | | | 48 | | | | | 0.5 | 2.0 | 0.5 | 27 | | | | | | | | | |
| HUSKEY ST. (RESURFACING) | | | | | | | | | | | | | 0.5 | 62 | | | | | | | 61 | | |
| PRIVATE DRIVEWAY (STA. 104+80.00) | | 40 | | | | | | | | | 0.2 | | | 15 | | | | | | | | | |
| TEMP. PVMT. (TRAFFIC CONTROL) | | 953 | | | | 221 | | | | | 3.0 | | 1.0 | | | | 128 | | | | 96 | | |
| TOTALS | | 4002 | | | | 269 | 675 | | | 364 | 8.7 | 20.0 | 6.5 | 104 | | | 733 | | | | 518 | | |

(1) INCLUDES QUANTITIES FOR BUSINESS ENTRANCE WITHIN RESURFACING SECTION (STA. 113+30.00).

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TABULATED QUANTITIES

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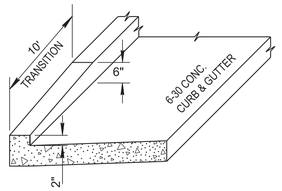
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 2G |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED PULL BOX AND LOOP DETAILS.

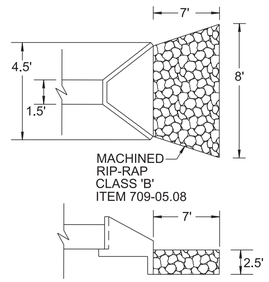



DETAIL OF CURB TRANSITION
AT END OF CURB & GUTTER

SEE STD. DWG. RP-VC-10
FOR OTHER DETAILS

N.T.S.

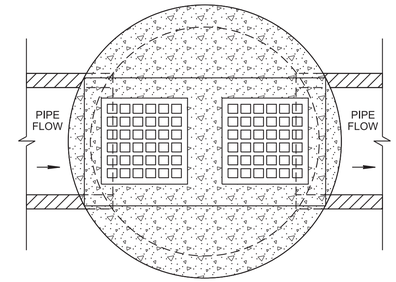
DETAIL 1




RIP-RAP APRON AT PIPE OUTLET
STA 104+88.39

N.T.S.

DETAIL 2



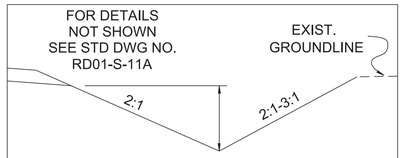

PLAN VIEW

DETAIL OF ROTATED LID FOR CIRCULAR NO. 43 CATCH BASIN
STA 106+50.00

SEE STD. DWG. D-CB-43R
FOR OTHER DETAILS

N.T.S.

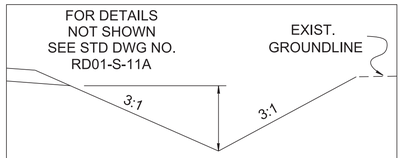
DETAIL 5




PROP. "V" BOTTOM SODDED DITCH
RIGHT STA. 106+10.00 TO STA. 106+50.00
(SEE SHEET 2F FOR SPECIAL DITCH TABULATION)

N.T.S.

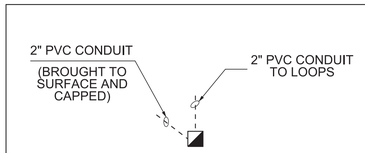
DETAIL 3A




PROP. "V" BOTTOM SODDED DITCH
RIGHT STA. 106+50.00 TO STA. 108+50.00
(SEE SHEET 2F FOR SPECIAL DITCH TABULATION)

N.T.S.

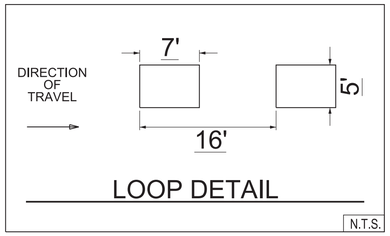
DETAIL 3B




PULL BOX DETAIL

N.T.S.

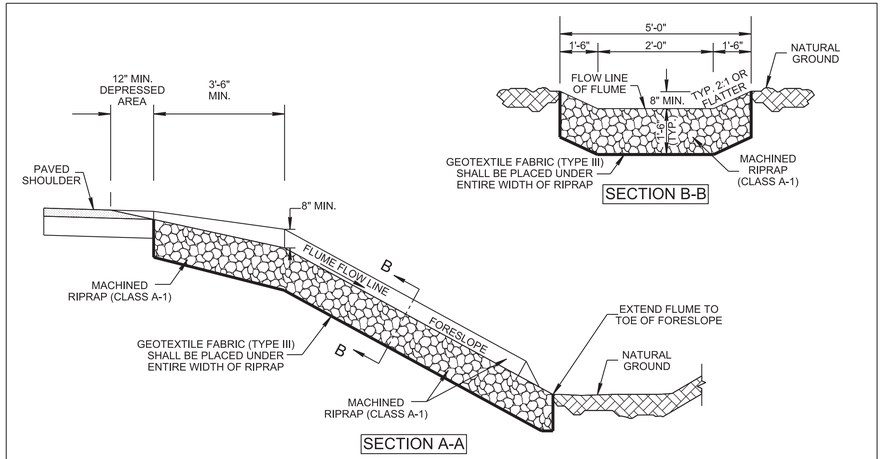
DETAIL 6




LOOP DETAIL

N.T.S.

DETAIL 7




DETAIL OF ROCK FLUME
STA 103+37.50

N.T.S.

DETAIL 4

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DETAIL
SHEET

SHEET 1 OF 2

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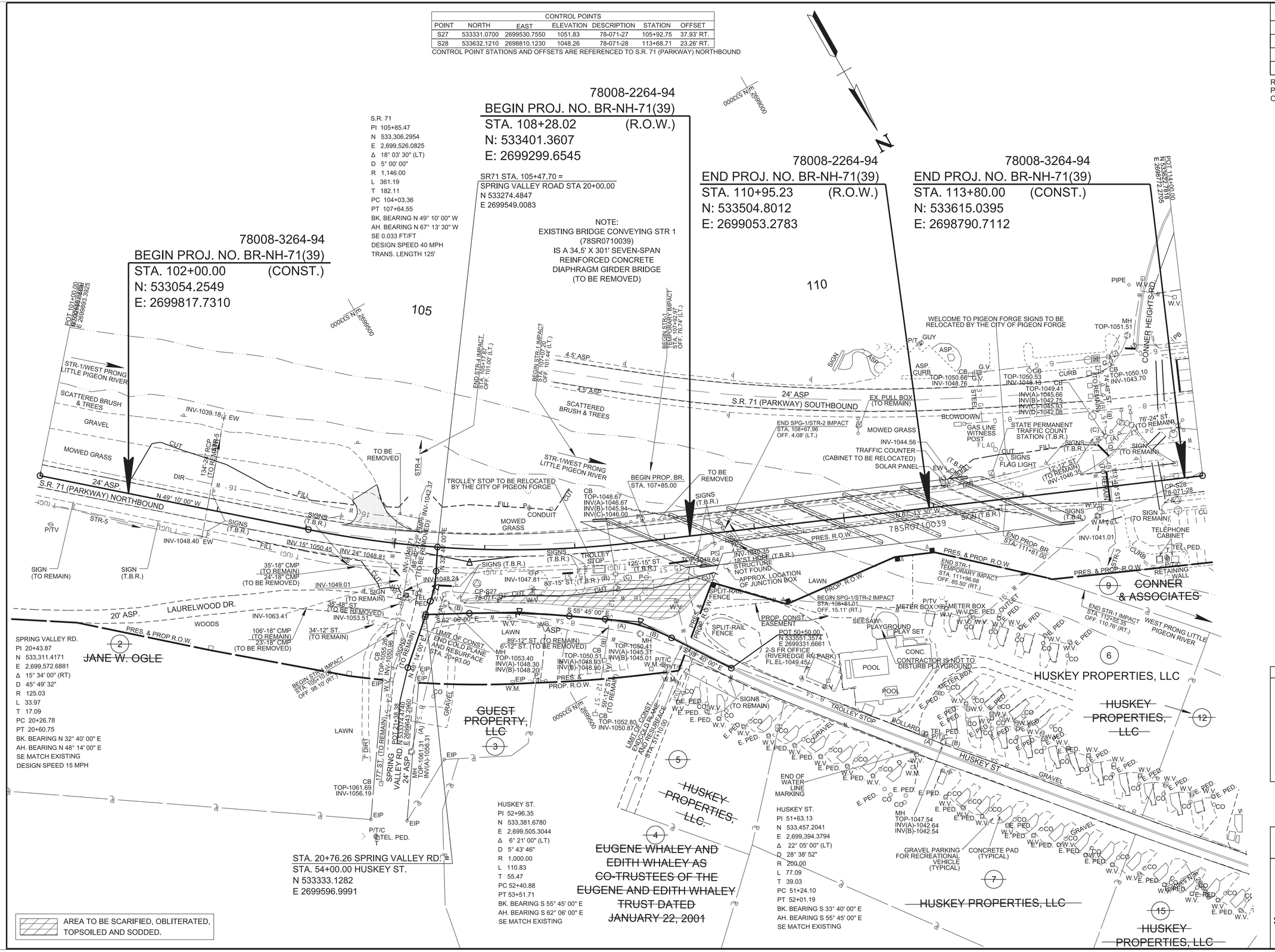
| CONTROL POINTS | | | | | | |
|---|---|---|---|---|---|---|
| POINT | NORTH | EAST | ELEVATION | DESCRIPTION | STATION | OFFSET |
| S27 | 533331.0700 | 2699530.7550 | 1051.83 | 78-071-27 | 105+92.75 | 37.93' RT. |
| S28 | 533632.1210 | 2698810.1230 | 1048.26 | 78-071-28 | 113+68.71 | 23.26' RT. |

CONTROL POINT STATIONS AND OFFSETS ARE REFERENCED TO S.R. 71 (PARKWAY) NORTHBOUND

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 4 |
| PS&E | 2025 | BR-NH-71(39) | 4 |
| | | | |
| | | | |

REV. 07/21/25: ADDED NOTES TO EXISTING PULL BOX, TRAFFIC COUNTER. AND CITY OF PIGEON FORGE SIGN.

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ERIC KIM REGISTERED ENGINEER AGRICULTURE COMMERCE 127151 STATE OF TENNESSEE

07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PRESENT LAYOUT

STA.108+28.02 TO STA.110+95.23
SCALE: 1"=50'

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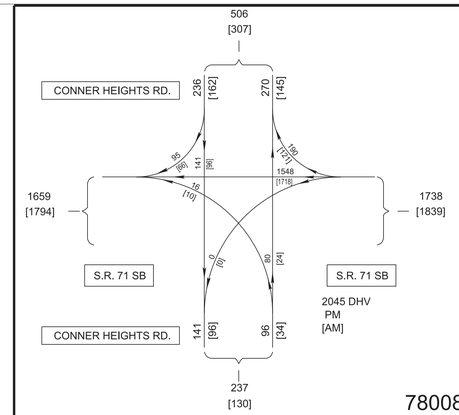
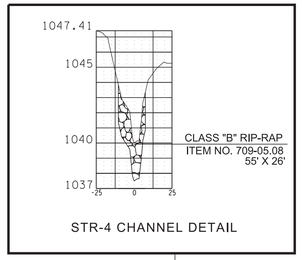
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 4B |
| PS&E | 2025 | BR-NH-71(39) | 4B |
| | | | |
| | | | |

REV. 07/21/25: ADDED TRAFFIC CABINET, PULL BOXES, CONDUIT, LOOP WIRES, AND NOTE FOR TRAFFIC COUNTER.

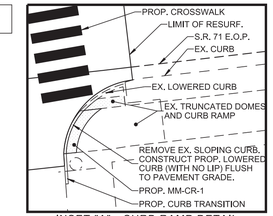
NOTE: RIP-RAP SHALL BE PLACED AS TO MIMIC THE EXISTING CONTOURS OF THE STR-4 CHANNEL. THE TOP OF THE PROPOSED RIP-RAP SHALL BE AT GRADE WITH THE BOTTOM OF THE EXISTING CHANNEL STREAM. VOIDS WITHIN THE RIP-RAP SHALL BE FILLED WITH CREEK GRAVEL, IF AVAILABLE, TO PREVENT LOSS OF STREAM WITHIN RIP-RAP AREAS. CREEK GRAVEL CAN BE REMOVED FROM CULVERT EXCAVATION AREA.

(*) NOTIFICATION OF COMPLETION AND THE X/Y COORDINATES OF ALL PULL BOXES IS REQUIRED - SEE SPECIAL TRAFFIC COUNTER SPECIFICATIONS.




STR-4 CHANNEL DETAIL




INSET "A" - CURB RAMP DETAIL
SCALE: 1"=15'

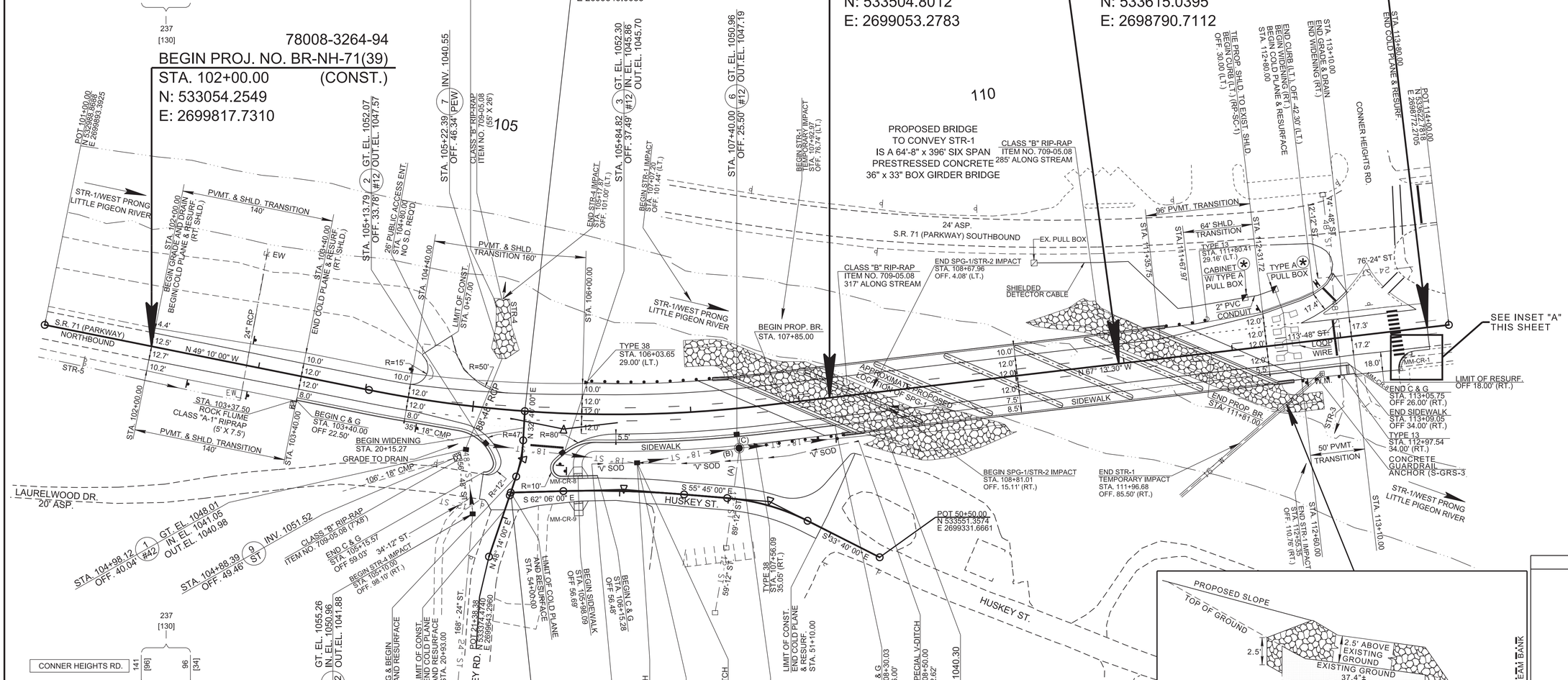
78008-2264-94
BEGIN PROJ. NO. BR-NH-71(39)
STA. 108+28.02 (R.O.W.)
N: 533401.3607
E: 2699299.6545

78008-2264-94
END PROJ. NO. BR-NH-71(39)
STA. 110+95.23 (R.O.W.)
N: 533504.8012
E: 2699053.2783

78008-3264-94
END PROJ. NO. BR-NH-71(39)
STA. 113+80.00 (CONST.)
N: 533615.0395
E: 2698790.7112

78008-3264-94
BEGIN PROJ. NO. BR-NH-71(39)
STA. 102+00.00 (CONST.)
N: 533054.2549
E: 2699817.7310

SR71 STA. 105+47.70 =
SPRING VALLEY ROAD STA 20+00.00
N 533274.4847
E 2699549.0083

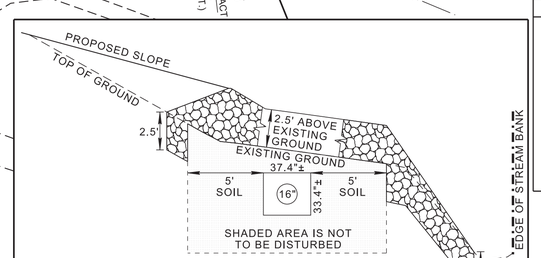



STA. 20+76.26 SPRING VALLEY RD. =
STA. 54+00.00 HUSKEY ST.
N 533333.1282
E 2699596.9991

SEE SHEET 4C FOR S.R. 71 PROFILE.
SEE SHEET 5 FOR SPRING VALLEY ROAD PROFILE.

GRATES OF TYPE 43 TO BE ALIGNED WITH INVERTS OF SPECIAL DITCH.

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT RIP-RAP DESIGNATED FOR BRIDGE ABUTMENTS WILL NOT ENTER ANY PORTION OF STR-1, STR-3, STR-4, AND STR-5.




RIP-RAP AT WATER LINE DETAIL

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO THE WATER LINE AND CONCRETE ENCASEMENT. PROPER EMBEDMENT OF THE RIP-RAP IS NOT REQUIRED WITHIN 5' OF THE CONCRETE ENCASED WATER LINE AND IS TO BE LAID ON TOP OF THE EXISTING GROUND OR AS DIRECTED BY THE TDOT OPERATIONS ENGINEER.

NOTE: THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-1, STR-3, STR-4, AND STR-5 AND THAT THE STREAM AND SURROUNDING VEGETATION WILL NOT BE DISTURBED AND ARE PROTECTED FROM SEDIMENTAND OTHER POLLUTANTS EXCEPT AT THE PERMITTED LOCATIONS.

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07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# PROPOSED LAYOUT

STA.102+00.00 TO STA.113+80.00
SCALE: 1"=50'

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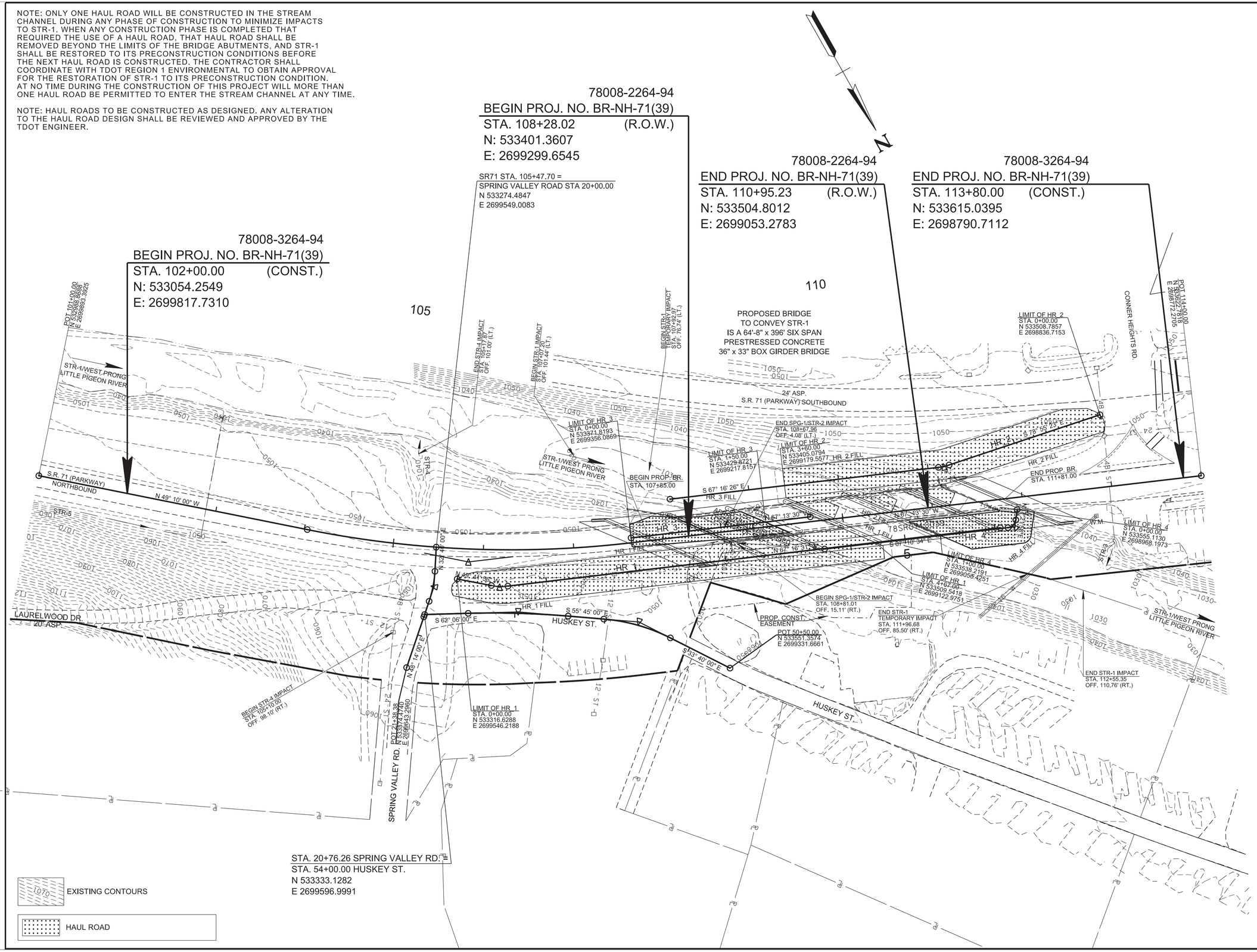
NOTE: ONLY ONE HAUL ROAD WILL BE CONSTRUCTED IN THE STREAM CHANNEL DURING ANY PHASE OF CONSTRUCTION TO MINIMIZE IMPACTS TO STR-1. WHEN ANY CONSTRUCTION PHASE IS COMPLETED THAT REQUIRED THE USE OF A HAUL ROAD, THAT HAUL ROAD SHALL BE REMOVED BEYOND THE LIMITS OF THE BRIDGE ABUTMENTS, AND STR-1 SHALL BE RESTORED TO ITS PRECONSTRUCTION CONDITIONS BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED. THE CONTRACTOR SHALL COORDINATE WITH TDOT REGION 1 ENVIRONMENTAL TO OBTAIN APPROVAL FOR THE RESTORATION OF STR-1 TO ITS PRECONSTRUCTION CONDITION. AT NO TIME DURING THE CONSTRUCTION OF THIS PROJECT WILL MORE THAN ONE HAUL ROAD BE PERMITTED TO ENTER THE STREAM CHANNEL AT ANY TIME.

NOTE: HAUL ROADS TO BE CONSTRUCTED AS DESIGNED. ANY ALTERATION TO THE HAUL ROAD DESIGN SHALL BE REVIEWED AND APPROVED BY THE TDOT ENGINEER.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 4B1 |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: ADDED ROADWAY AND HAUL ROAD ALIGNMENTS. ADDED HAUL ROAD NOTE.

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 127851
STATE OF TENNESSEE

07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE**
**DEPARTMENT OF TRANSPORTATION**

# HAUL ROAD LAYOUT

STA.102+00.00 TO STA.113+80.00
SCALE: 1"=50'

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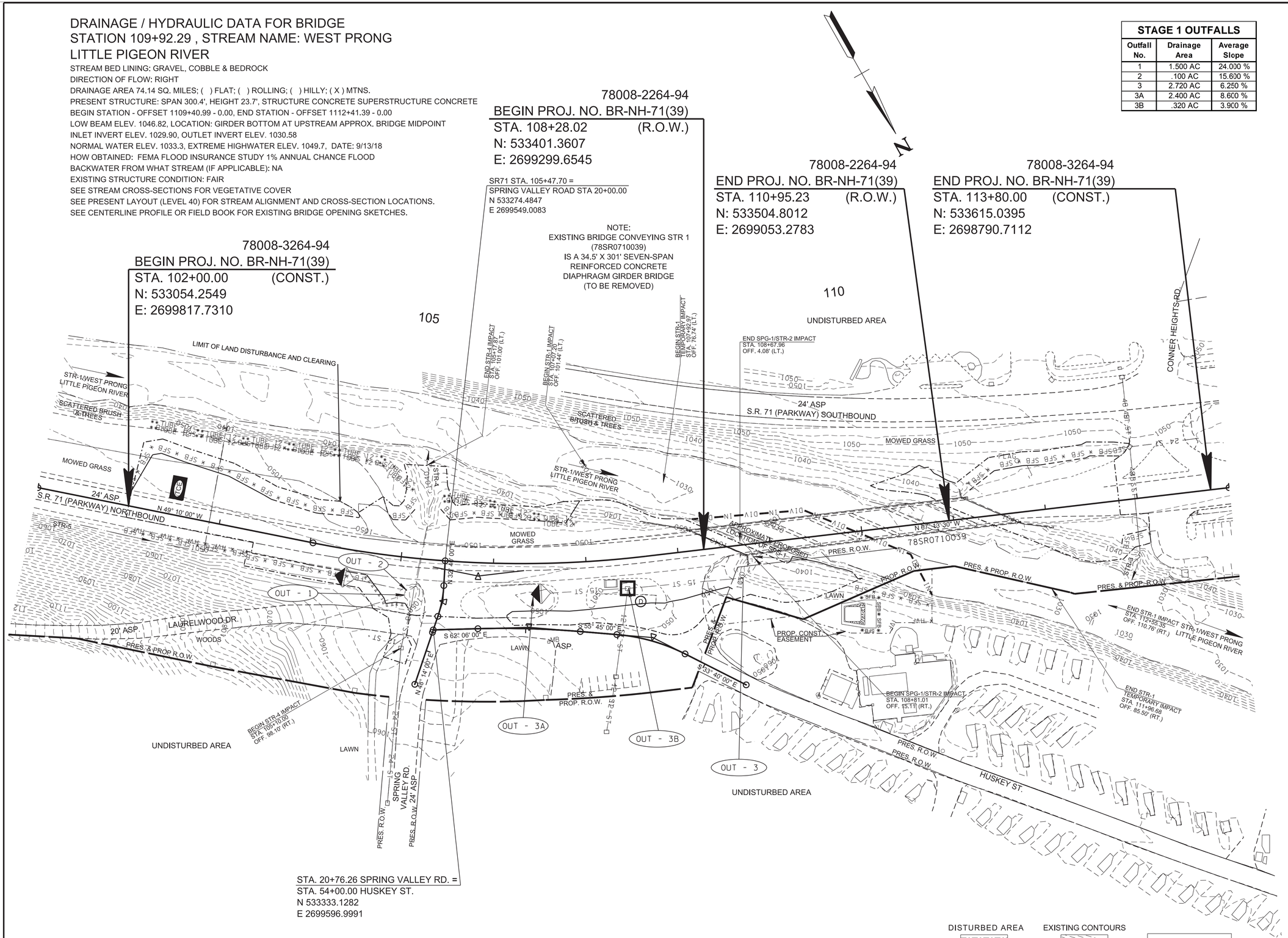
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 12 |
| PS&E | 2025 | BR-NH-71(39) | 12 |
| | | | |
| | | | |

REV. 07/21/25: ADDED LINESTYLE FOR IN-STREAM DIVERSION.

## DRAINAGE / HYDRAULIC DATA FOR BRIDGE STATION 109+92.29 , STREAM NAME: WEST PRONG LITTLE PIGEON RIVER

STREAM BED LINING: GRAVEL, COBBLE & BEDROCK
DIRECTION OF FLOW: RIGHT
DRAINAGE AREA 74.14 SQ. MILES; ( ) FLAT; ( ) ROLLING; ( ) HILLY; ( X ) MTNS.
PRESENT STRUCTURE: SPAN 300.4', HEIGHT 23.7', STRUCTURE CONCRETE SUPERSTRUCTURE CONCRETE
BEGIN STATION - OFFSET 1109+40.99 - 0.00, END STATION - OFFSET 1112+41.39 - 0.00
LOW BEAM ELEV. 1046.82, LOCATION: GIRDER BOTTOM AT UPSTREAM APPROX. BRIDGE MIDPOINT
INLET INVERT ELEV. 1029.90, OUTLET INVERT ELEV. 1030.58
NORMAL WATER ELEV. 1033.3, EXTREME HIGHWATER ELEV. 1049.7, DATE: 9/13/18
HOW OBTAINED: FEMA FLOOD INSURANCE STUDY 1% ANNUAL CHANCE FLOOD
BACKWATER FROM WHAT STREAM (IF APPLICABLE): NA
EXISTING STRUCTURE CONDITION: FAIR
SEE STREAM CROSS-SECTIONS FOR VEGETATIVE COVER
SEE PRESENT LAYOUT (LEVEL 40) FOR STREAM ALIGNMENT AND CROSS-SECTION LOCATIONS.
SEE CENTERLINE PROFILE OR FIELD BOOK FOR EXISTING BRIDGE OPENING SKETCHES.

| STAGE 1 OUTFALLS | | |
|---|---|---|
| Outfall No. | Drainage Area | Average Slope |
| 1 | 1.500 AC | 24.000 % |
| 2 | .100 AC | 15.600 % |
| 3 | 2.720 AC | 6.250 % |
| 3A | 2.400 AC | 8.600 % |
| 3B | .320 AC | 3.900 % |

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REGISTERED ENGINEER
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COMMERCE
No. 127693
STATE OF TENNESSEE
07/22/2025

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.102+00.00 TO STA.113+80.00
SCALE: 1"= 50'

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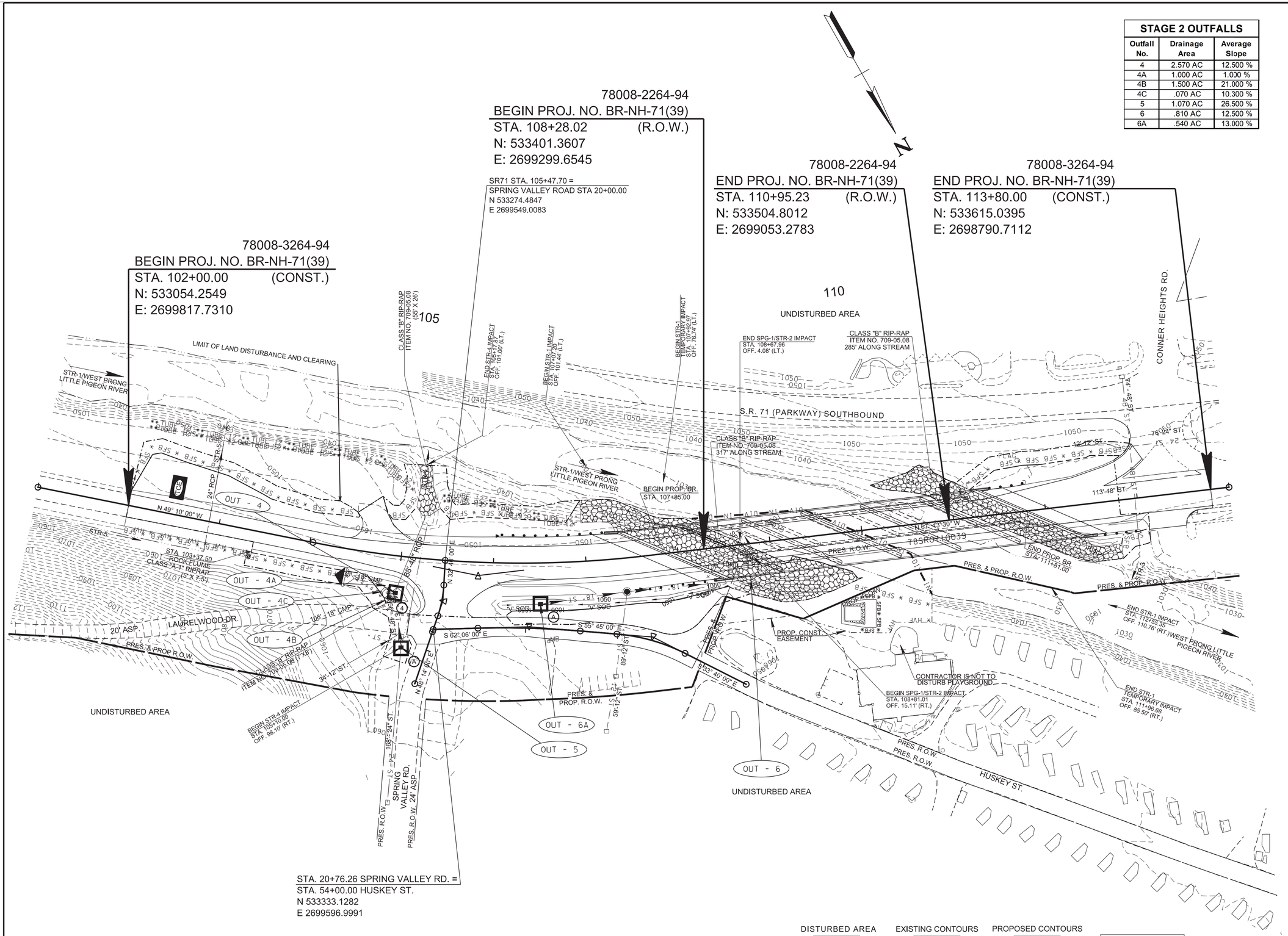
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 13 |
| PS&E | 2025 | BR-NH-71(39) | 13 |
| | | | |
| | | | |

REV. 07/21/25: ADDED LINESTYLE FOR IN-STREAM DIVERSION.

**STAGE 2 OUTFALLS**

| Outfall No. | Drainage Area | Average Slope |
|---|---|---|
| 4 | 2.570 AC | 12.500 % |
| 4A | 1.000 AC | 1.000 % |
| 4B | 1.500 AC | 21.000 % |
| 4C | .070 AC | 10.300 % |
| 5 | 1.070 AC | 26.500 % |
| 6 | .810 AC | 12.500 % |
| 6A | .540 AC | 13.000 % |




DISTURBED AREA | EXISTING CONTOURS | PROPOSED CONTOURS

STAGE 2

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ERIC KIM REGISTERED ENGINEER AGRICULTURE COMMERCE No. 127831 STATE OF TENNESSEE

07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE**
**DEPARTMENT OF TRANSPORTATION**

# EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA.102+00.00 TO STA.113+80.00

SCALE: 1"= 50'

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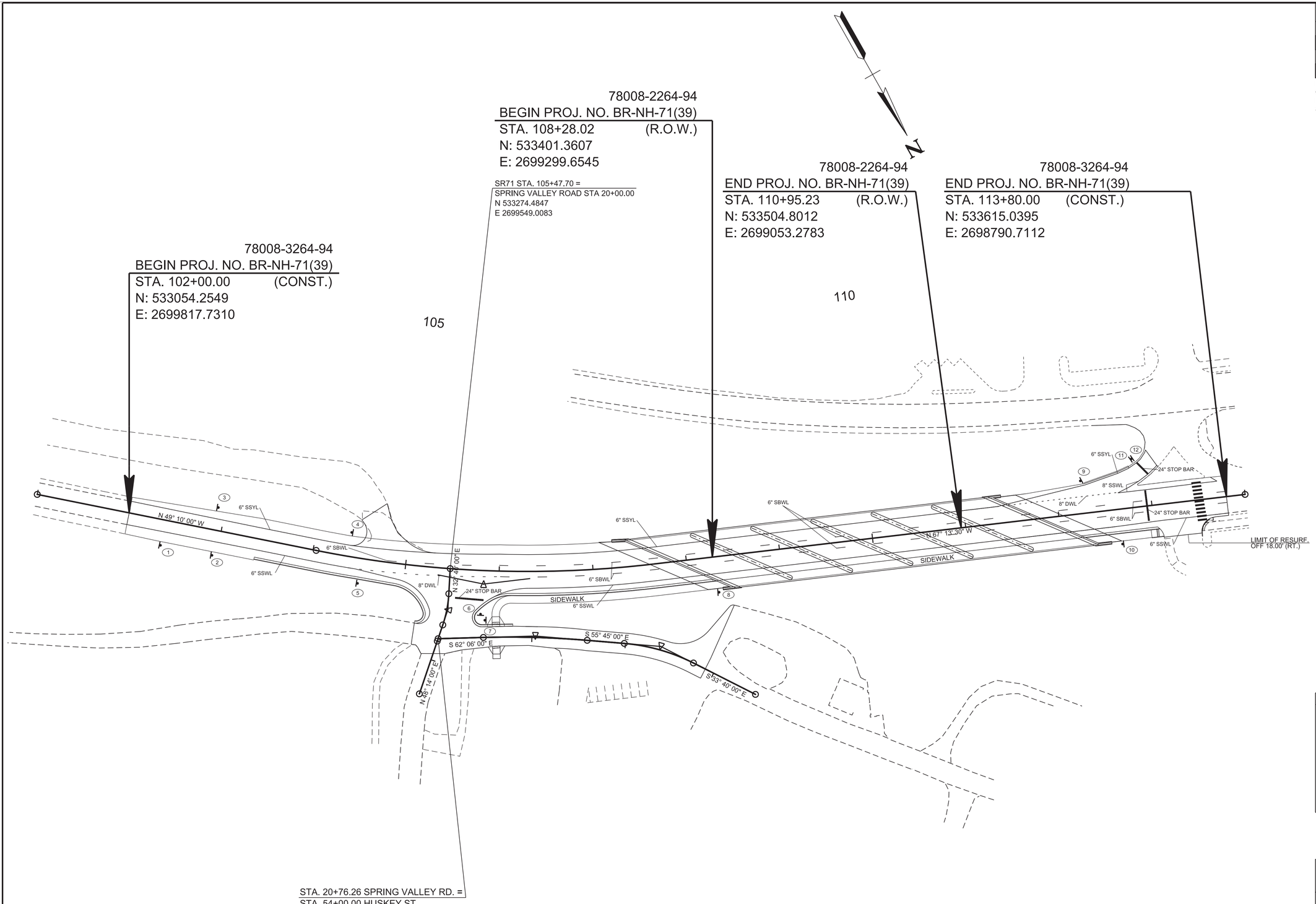
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 15 |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: REMOVED LABEL FOR CONTRAST PAVEMENT MARKINGS. REVISED SIGNATURE AND STAMP IN SEALED BY BOX.




**SEALED BY**

JACOB BRASHEAR
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 122645
STATE OF TENNESSEE
7/22/2025

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**STATE OF TENNESSEE**
**DEPARTMENT OF TRANSPORTATION**

# SIGNING AND PAVEMENT MARKING PLAN

STA.102+00.00 TO STA.113+80.00
SCALE: 1"=50'

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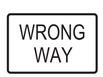
ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" OR THE CURRENT EDITION OF THE "TENNESSEE SUPPLEMENT TO THE STANDARD HIGHWAY SIGNS BOOK"

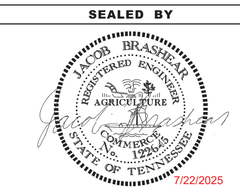
CONCRETE AND STEEL QUANTITIES FOR FOOTINGS ARE PER EACH

| SIGN NO. | LEGEND | SHEET NO. | SIZE | | | | COPY | | | | SHIELD | ARROW | SIGN FACE | | | STEEL DESIGN (BREAK-AWAY) | | | | | MINIMUM VERTICAL CLEARANCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LENGTH | HEIGHT | RADIUS | BORDER WIDTH | CAPITAL | LOWER CASE | NUMERAL | SERIES | | | COPY | BACKGROUND | MATERIAL | SUPPORT TYPE | SUPPORT LENGTH | FOOTING | CONC. CU. YD. | REIN. STEEL LBS. | | |
| 1 |  TN-22A<br>M3-3<br>M1-4 | 14 | 24"<br>24"<br>30" | 12"<br>12"<br>24" | | | | | | | | | GREEN (REF.)<br>BLACK<br>BLACK | WHITE (REF.)<br>WHITE (REF.)<br>WHITE (REF.) | 0.080" SHEET ALUMINUM | P5 | h = 11'-6" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 2 |  W3-3 | 14 | 36" | 36" | | | | | | | | | BLACK | YELLOW/ RED/GREEN (REF.) | 0.100" SHEET ALUMINUM | P5 | h = 11'-3" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 3 | | 14 | | | | | | | | | | | | | | P5 | h = 10'-9" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 5' | |
| 4 |  R5-1A<br>R5-1 | 14 | 42"<br>36" | 30"<br>36" | | | | | | | | | WHITE (REF.)<br>RED (REF.) | RED (REF.)<br>WHITE (REF.) | 0.100" SHEET ALUMINUM | P5 | $h_1$ = 12'-0"<br>$h_2$ = 12'-3" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 5' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 5 |  R2-1 | 14 | 30" | 36" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P5 | h = 10'-0" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 7 |  R1-1 | 14 | 36" | 36" | | | | | | | | | WHITE (REF.) | RED (REF.) | 0.100" SHEET ALUMINUM | P5 | h = 10'-0" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 8 |  | 14 | 3'-6" | 1'-6" | 3" | 1" | 5" | 4" | | E MOD | | | WHITE (REF.) | GREEN (REF.) | 1-12" & 1-6" ALUMINUM EXTRUSIONS | P2 | $h_1$ = 11'-6"<br>$h_2$ = 11'-6" | | | | 7' | |
| 9 |  R5-1A | 14 | 42" | 30" | | | | | | | | | WHITE (REF.) | RED (REF.) | 0.100" SHEET ALUMINUM | P2 | $h_1$ = 12'-6"<br>$h_2$ = 12'-6" | | | | 7' | |
| 10 | | 14 | | | | | | | | | | | | | | P2 | $h_1$ = 12'-6"<br>$h_2$ = 12'-6" | | | | 7' | |
| 11 |  R10-6R | 14 | 24" | 36" | | | | | | | | | BLACK | WHITE (REF.) | 0.080" SHEET ALUMINUM | P5 | h = 10'-0" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 6 |  R1-1<br>R3-2 | 14 | 36"<br>36" | 36"<br>36" | | | | | | | | | WHITE (REF.)<br>WHITE (REF.) | RED (REF.)<br>RED (REF.) | 0.100" SHEET ALUMINUM<br>0.100" SHEET ALUMINUM | P6 | h = 13'-3" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P6 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A |
| 12 |  R5-1 | 14 | 36" | 36" | | | | | | | | | WHITE (REF.) | RED (REF.) | 0.100" SHEET ALUMINUM | P5 | h = 10'-0" | TYPE 4 1'-0" DIA. | 0.12 | 24.9 | 7' | P5 SUPPORTS REQUIRE SLIP BASE ITEM NO. 713-11.21 (INCLUDES STUB) - SEE DETAIL D ON STD. DWG. T-S-23A<br>SIGN TO BE PLACED ON THE BACKSIDE OF SIGN 11. |

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | 16 |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: REVISED SIGNATURE AND STAMP IN SEALED BY BOX.

SEALED BY

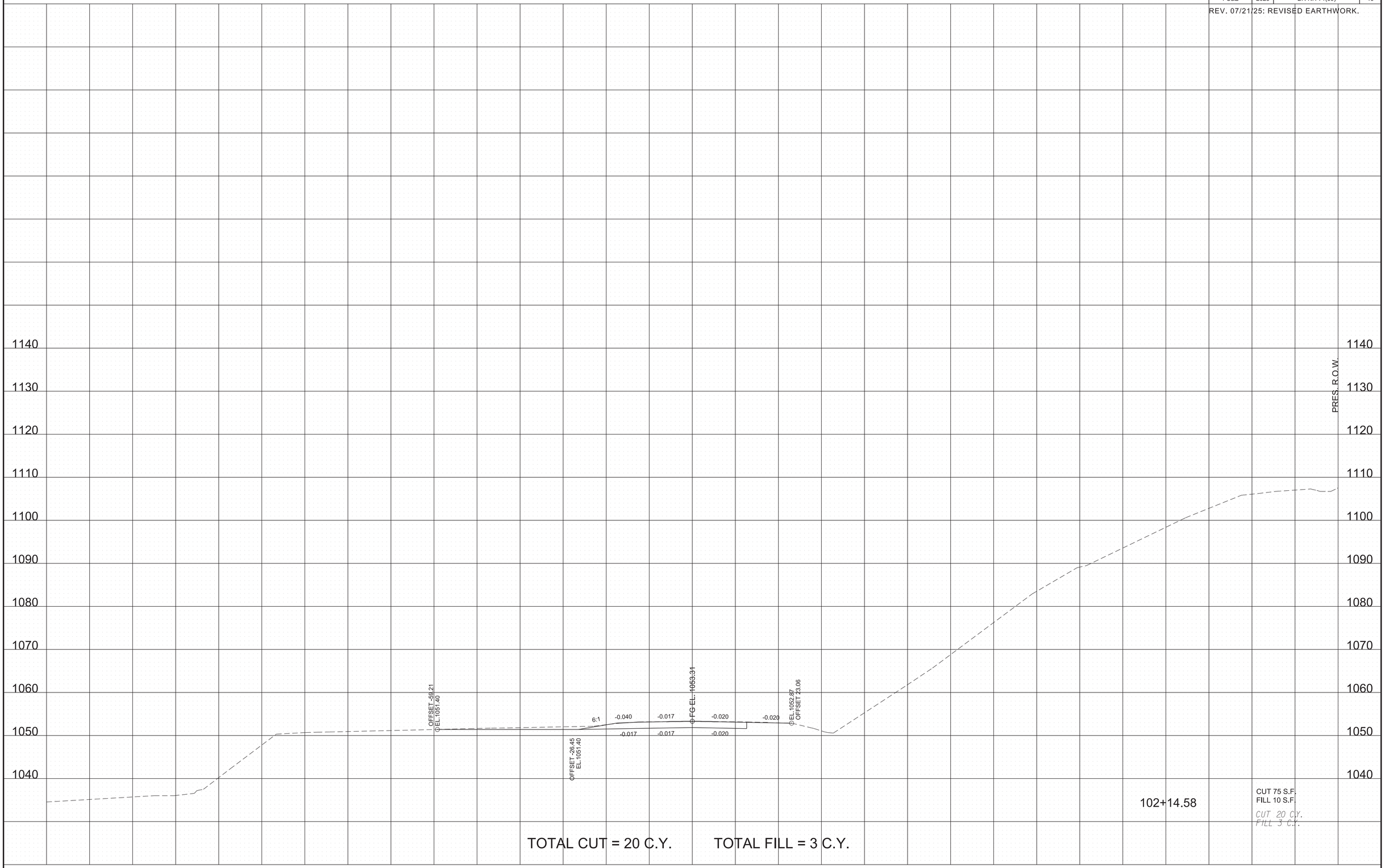



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# SIGN SCHEDULE

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 16 |
| PS&E | 2025 | BR-NH-71(39) | 19 |

REV. 07/21/25: REVISED EARTHWORK.

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 17 |
| PS&E | 2025 | BR-NH-71(39) | 20 |

REV. 07/21/25: REVISED EARTHWORK.


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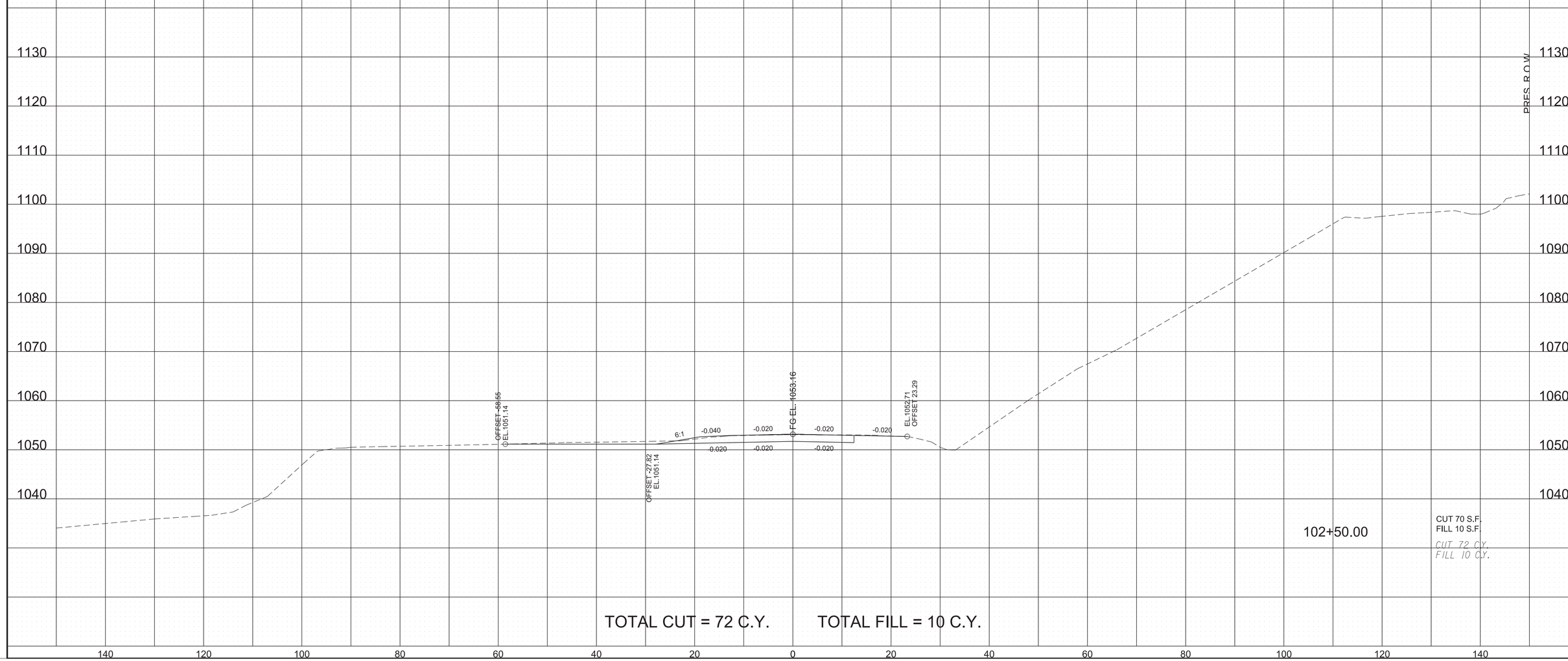
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 18 |
| PS&E | 2025 | BR-NH-71(39) | 21 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 72 C.Y. TOTAL FILL = 10 C.Y.

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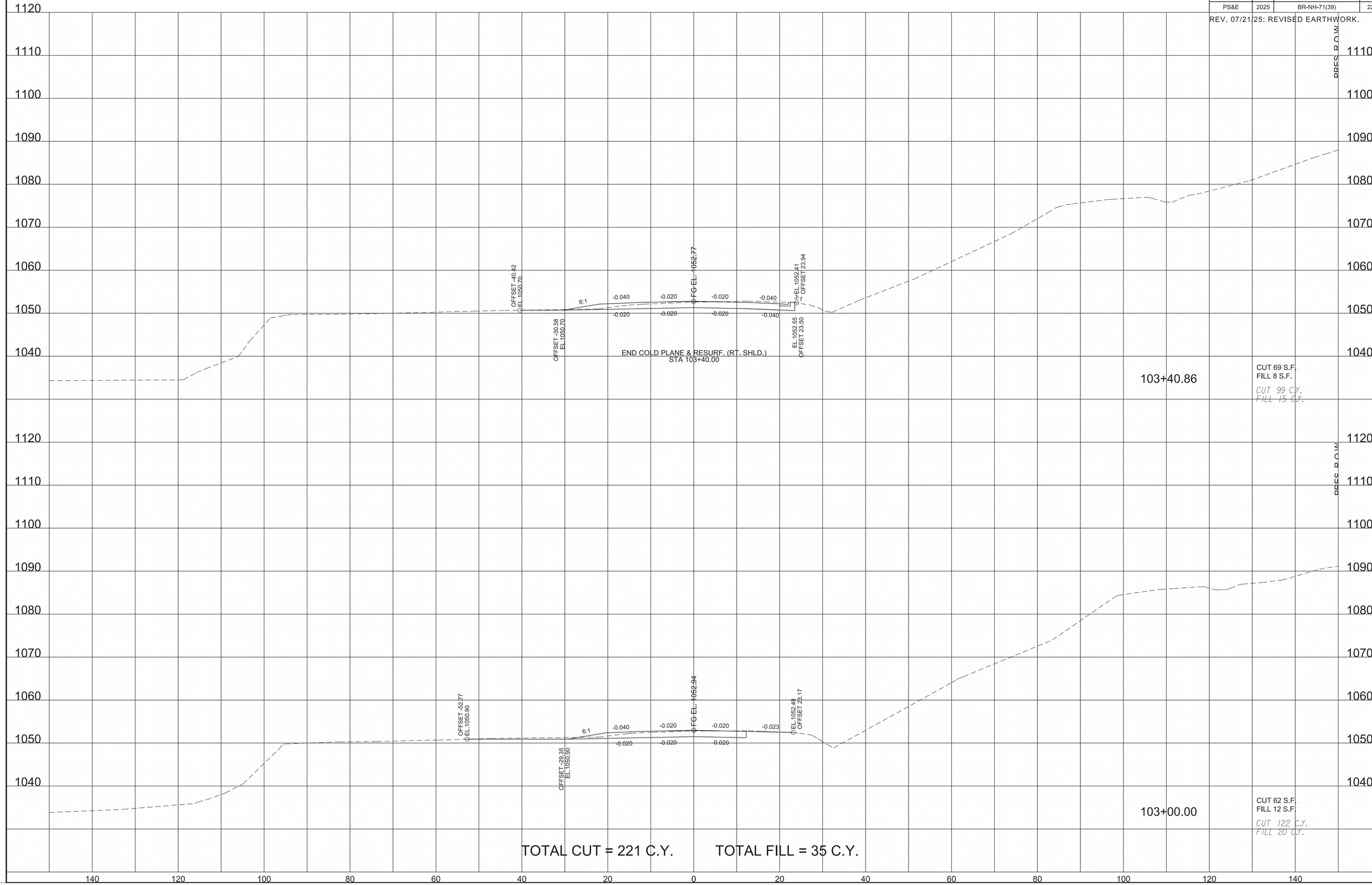
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 19 |
| PS&E | 2025 | BR-NH-71(39) | 22 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 221 C.Y. TOTAL FILL = 35 C.Y.

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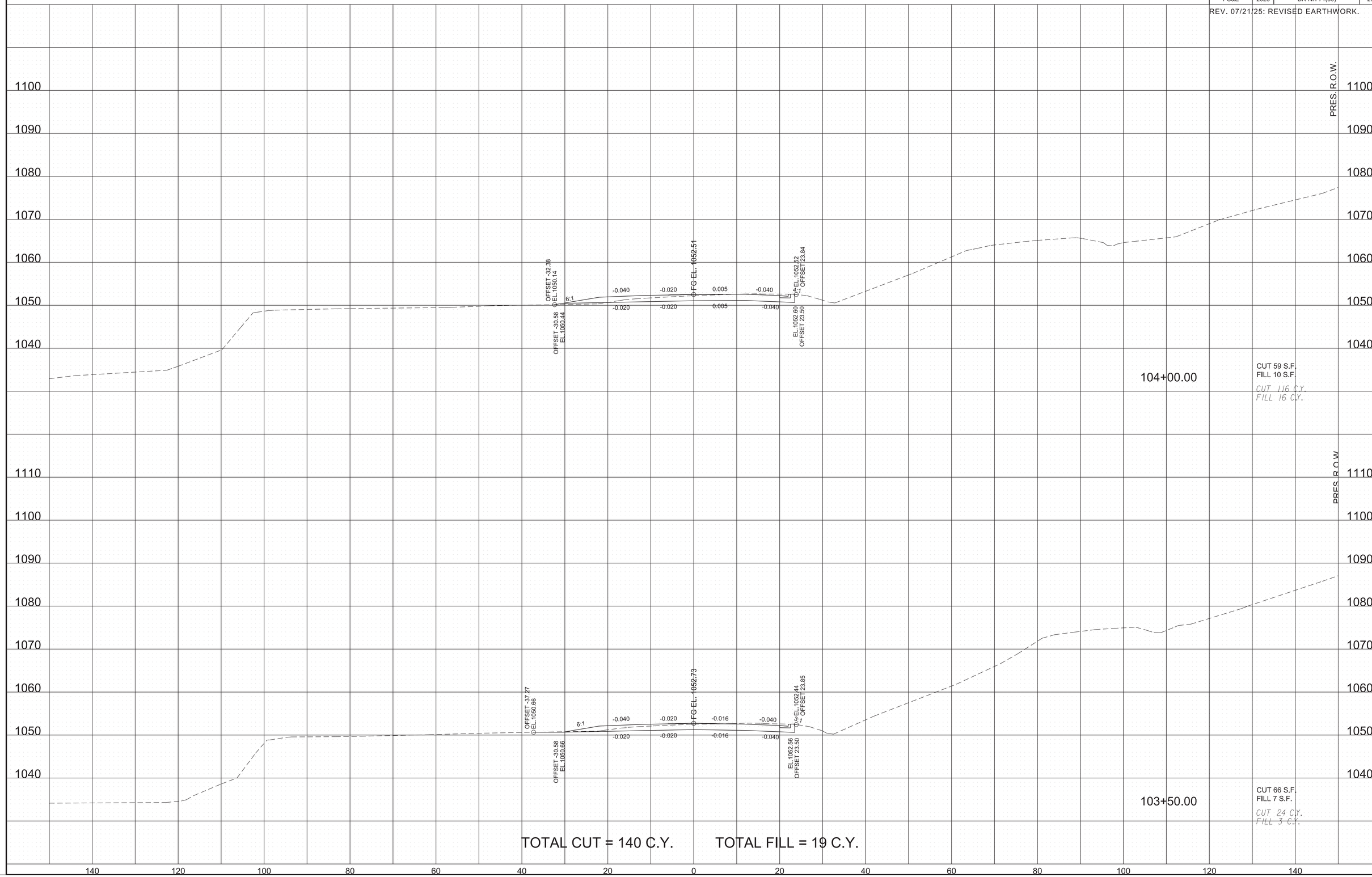
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 20 |
| PS&E | 2025 | BR-NH-71(39) | 23 |

REV. 07/21/25: REVISED EARTHWORK.

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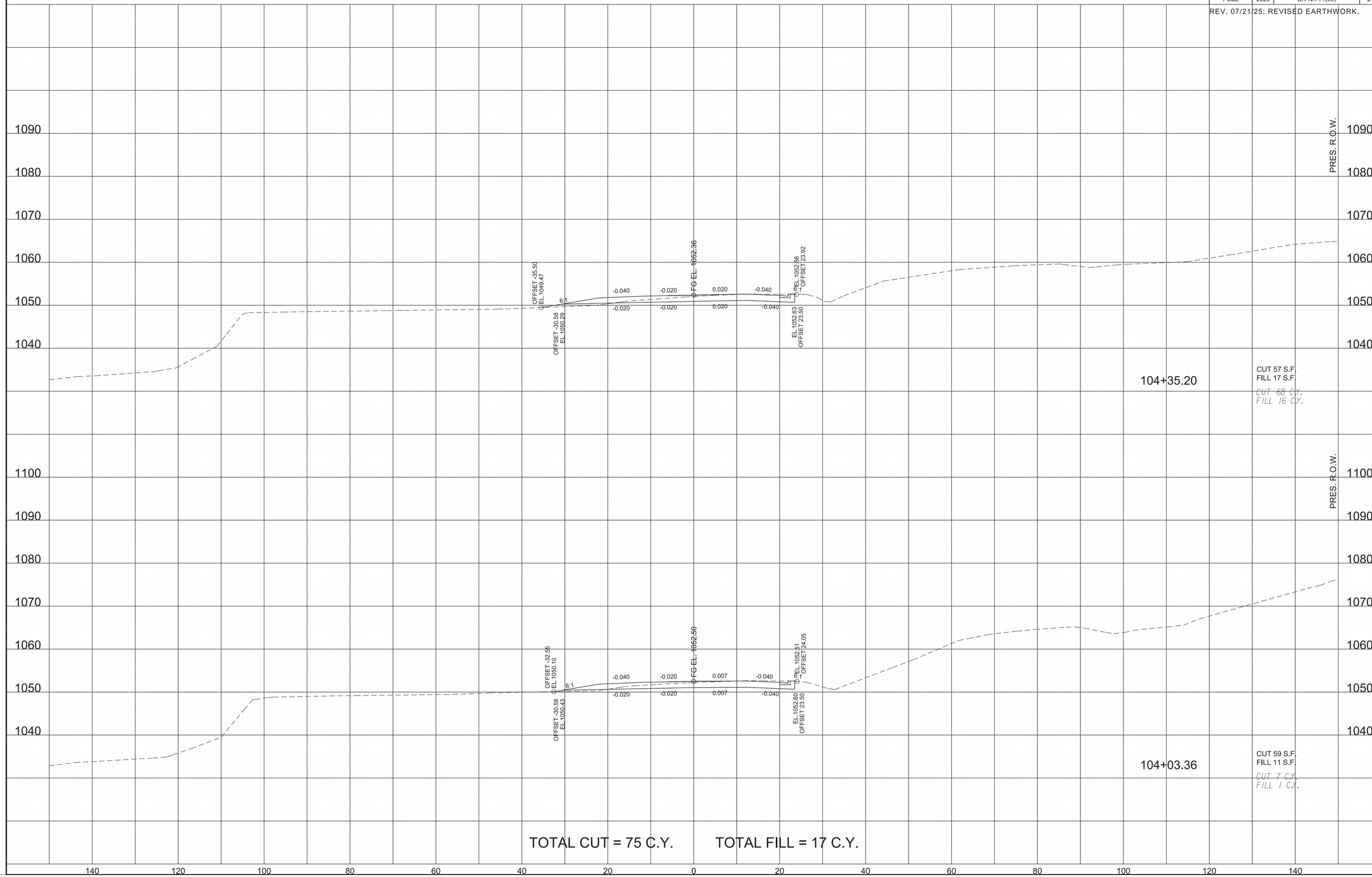
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 21 |
| PS&E | 2025 | BR-NH-71(39) | 24 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 75 C.Y. TOTAL FILL = 17 C.Y.

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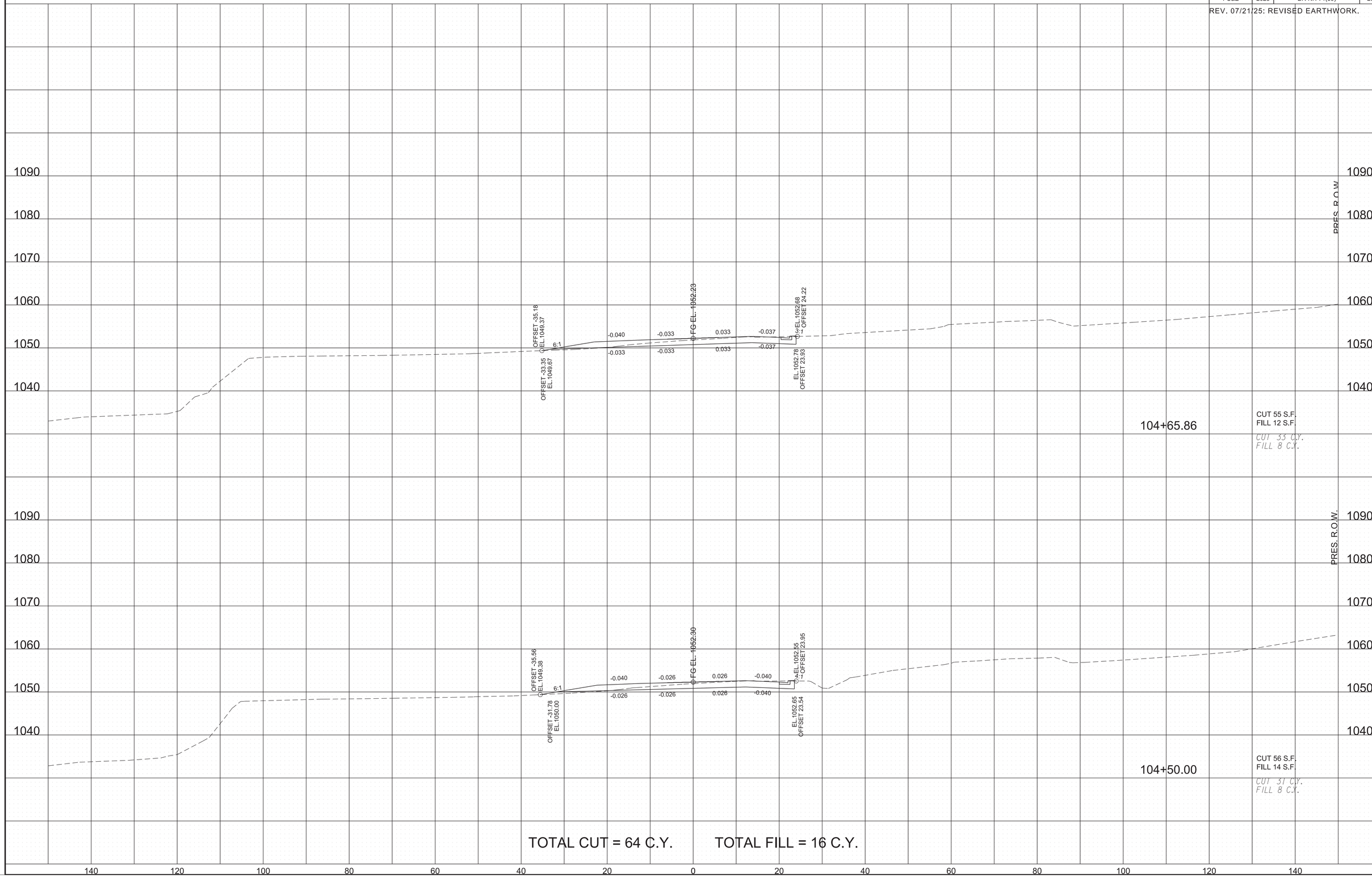
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 22 |
| PS&E | 2025 | BR-NH-71(39) | 25 |

REV. 07/21/25: REVISED EARTHWORK.

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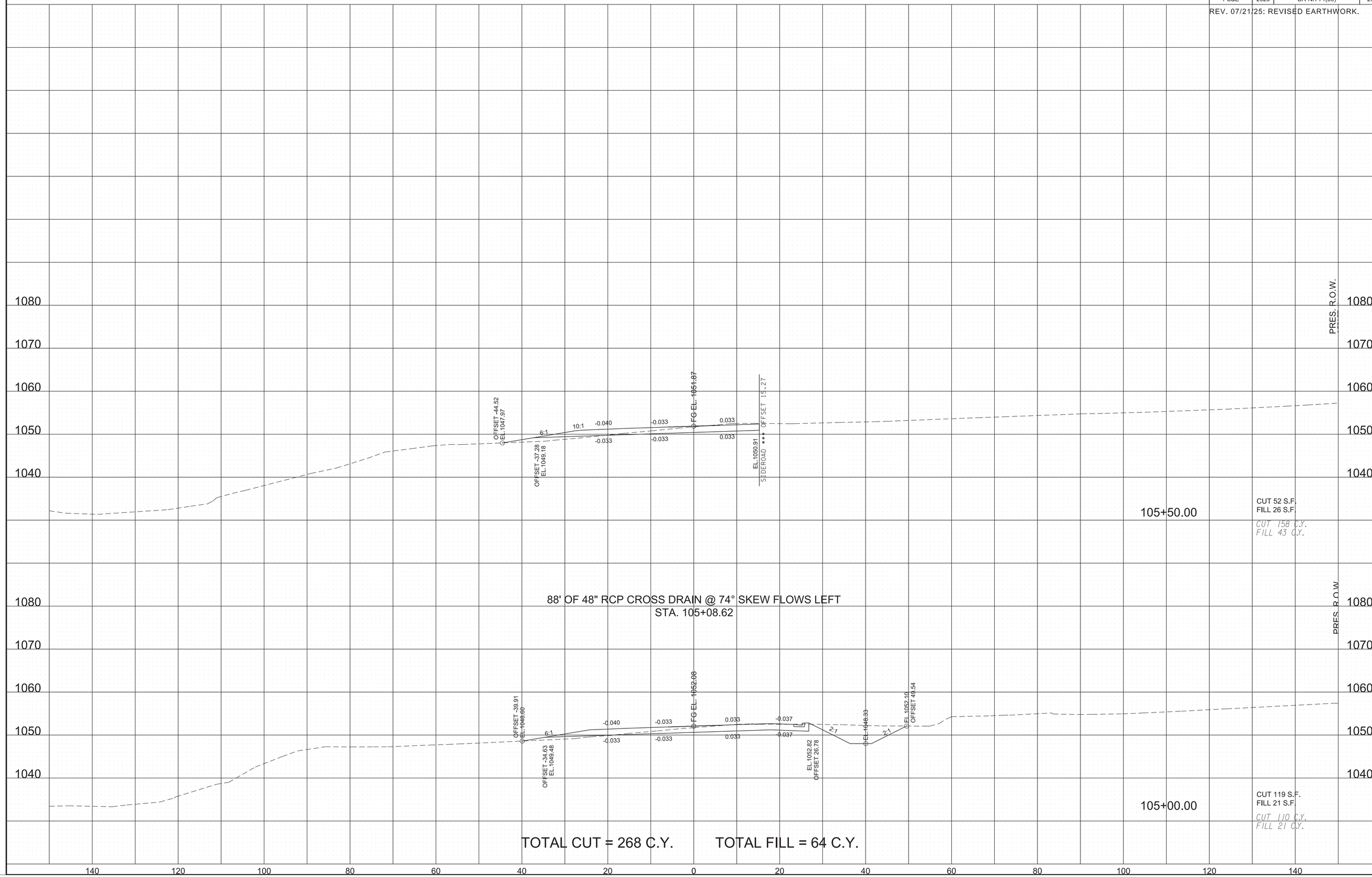
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 23 |
| PS&E | 2025 | BR-NH-71(39) | 26 |

REV. 07/21/25: REVISED EARTHWORK.

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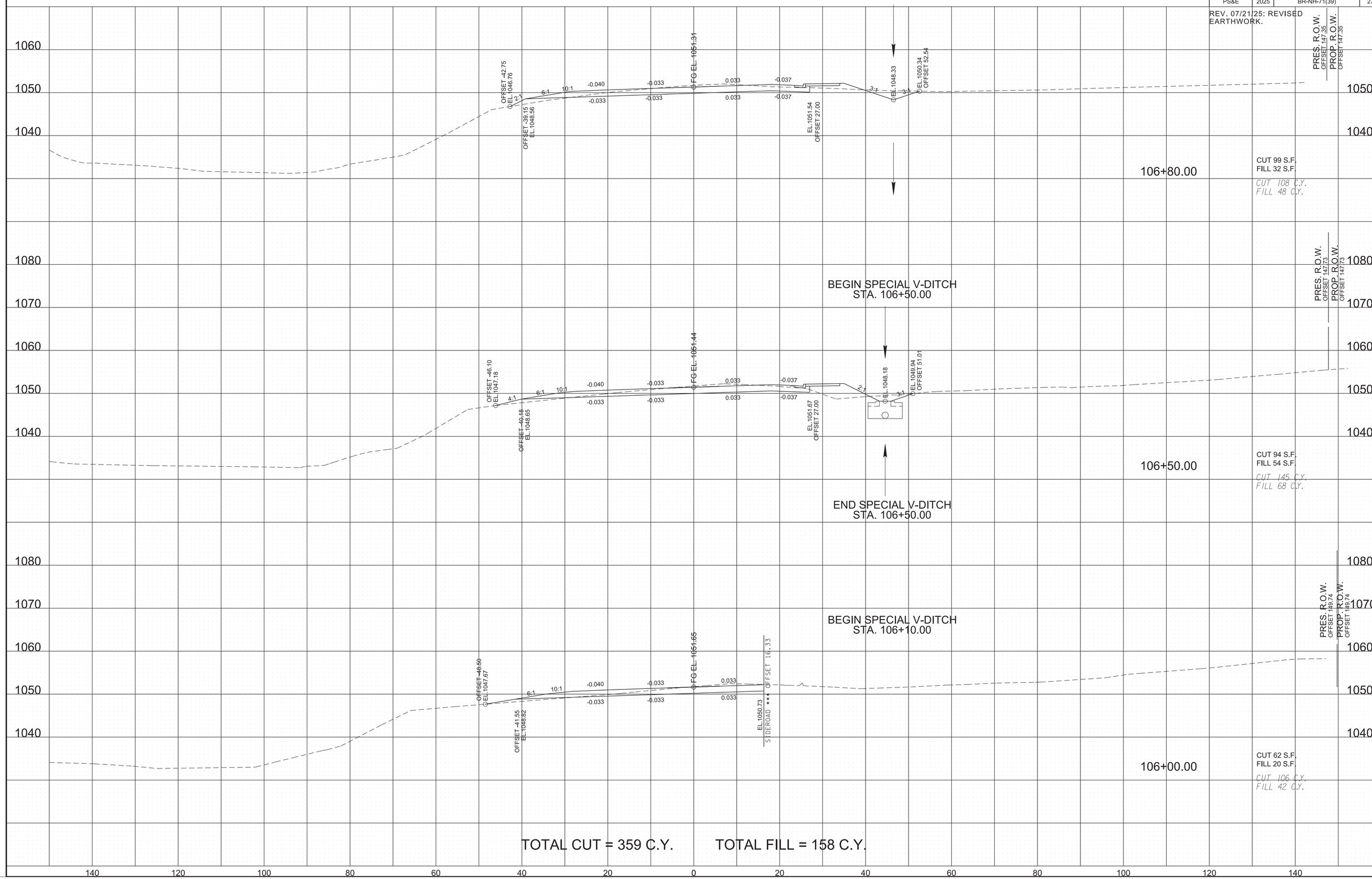
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 24 |
| PS&E | 2025 | BR-NH-71(39) | 27 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 359 C.Y. TOTAL FILL = 158 C.Y.

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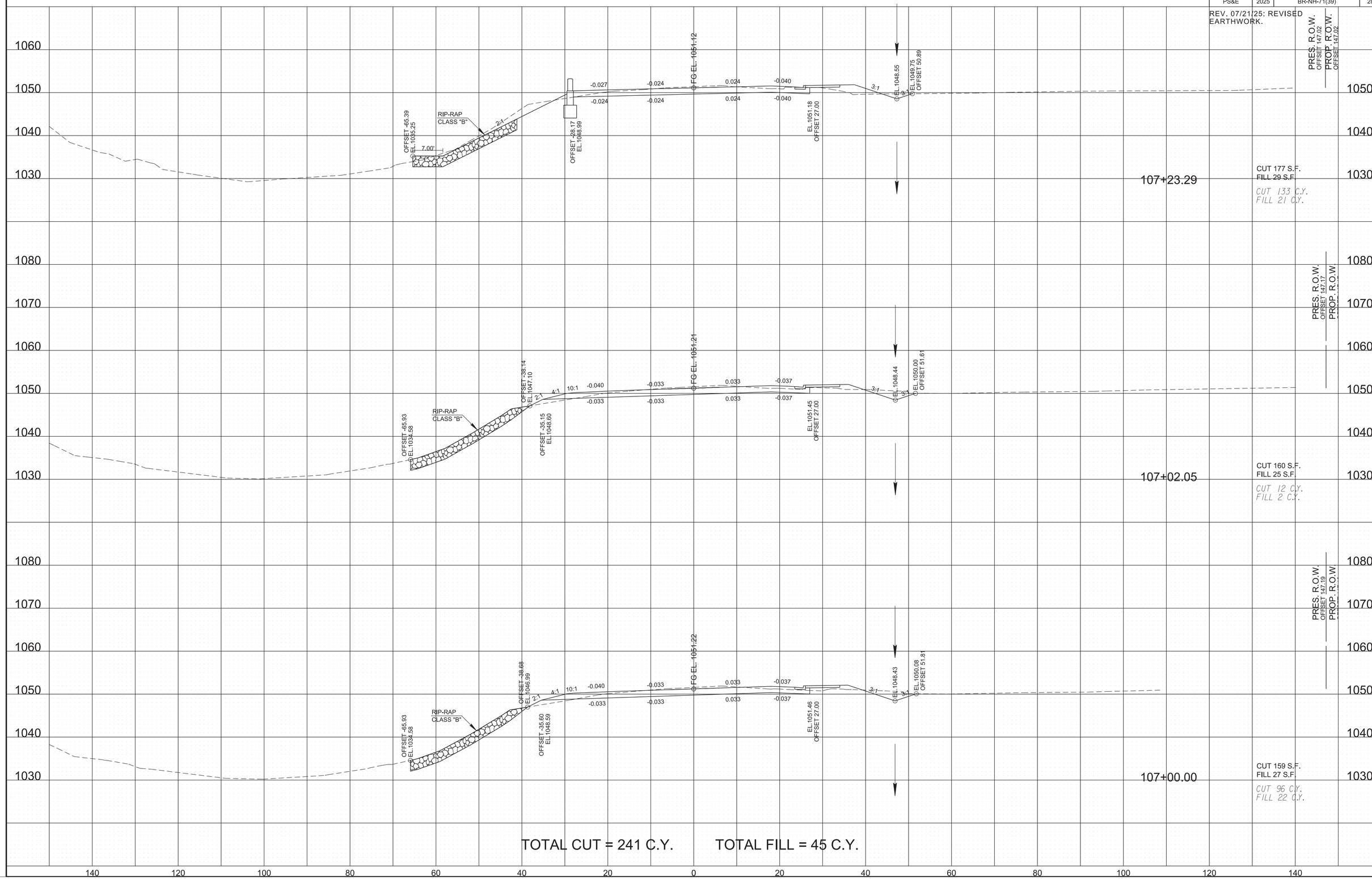
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 25 |
| PS&E | 2025 | BR-NH-71(39) | 28 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 241 C.Y. TOTAL FILL = 45 C.Y.

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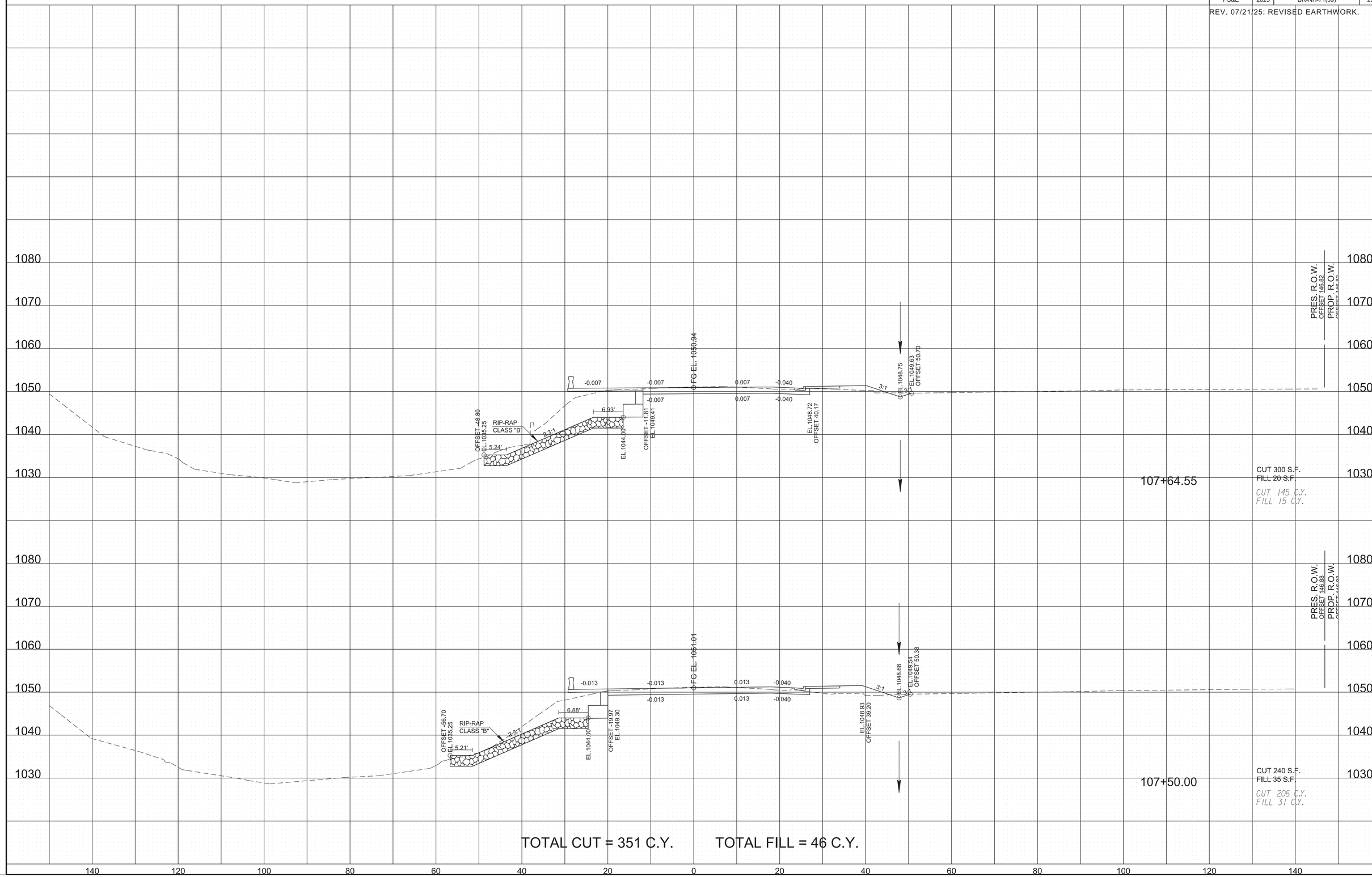
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 26 |
| PS&E | 2025 | BR-NH-71(39) | 29 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 351 C.Y. TOTAL FILL = 46 C.Y.

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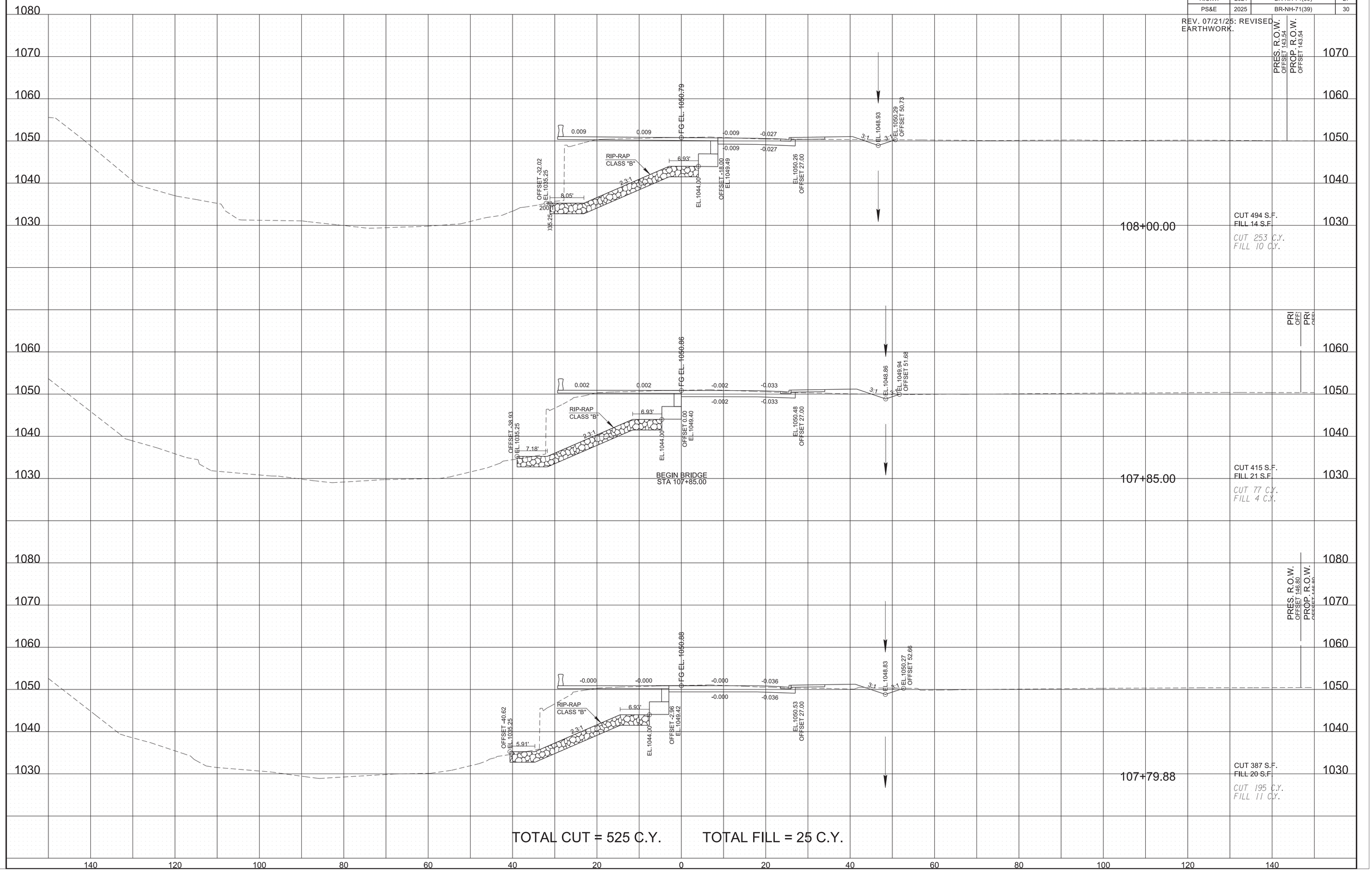
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 27 |
| PS&E | 2025 | BR-NH-71(39) | 30 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 525 C.Y. TOTAL FILL = 25 C.Y.

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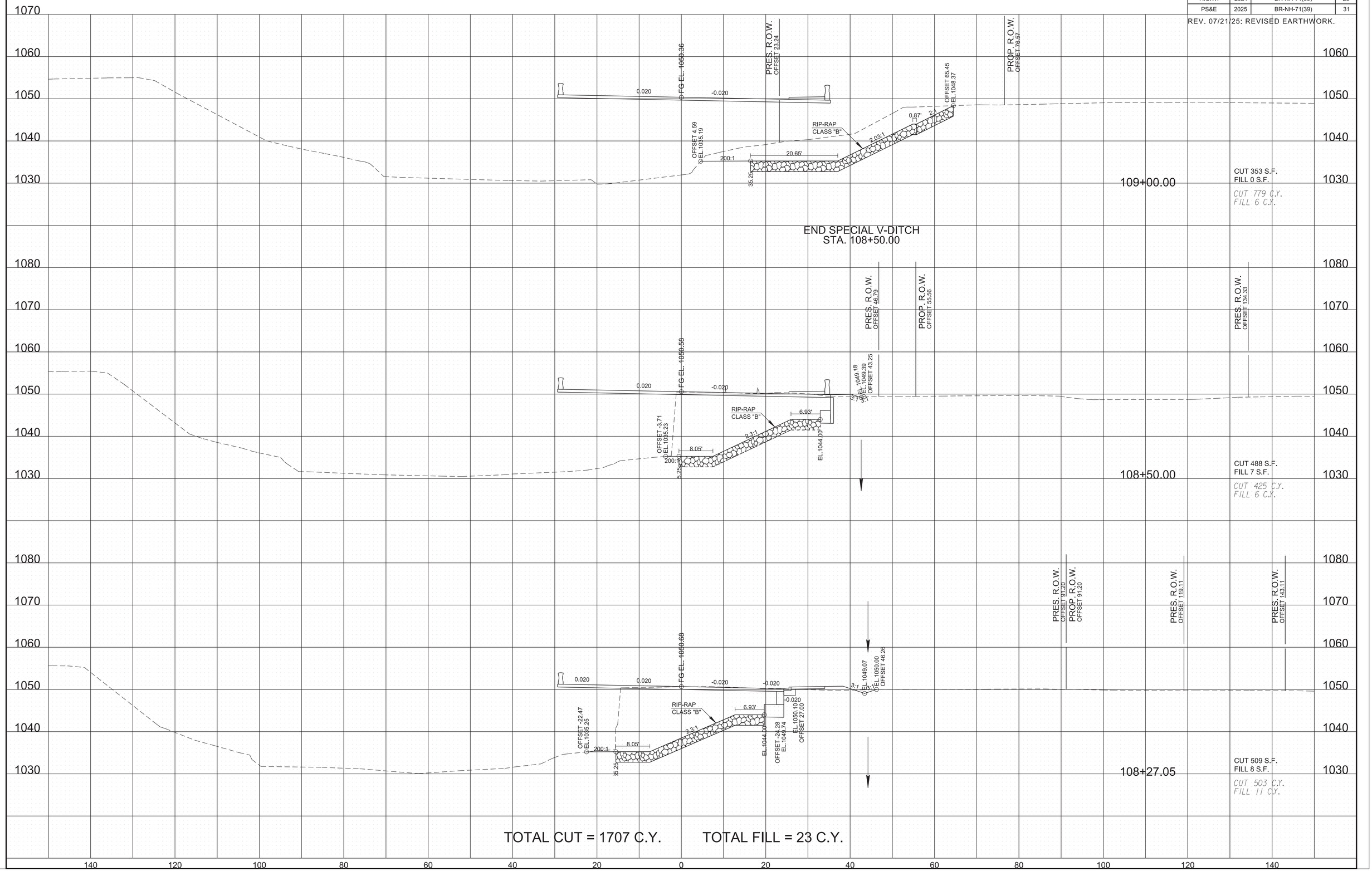
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 28 |
| PS&E | 2025 | BR-NH-71(39) | 31 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 1707 C.Y. TOTAL FILL = 23 C.Y.

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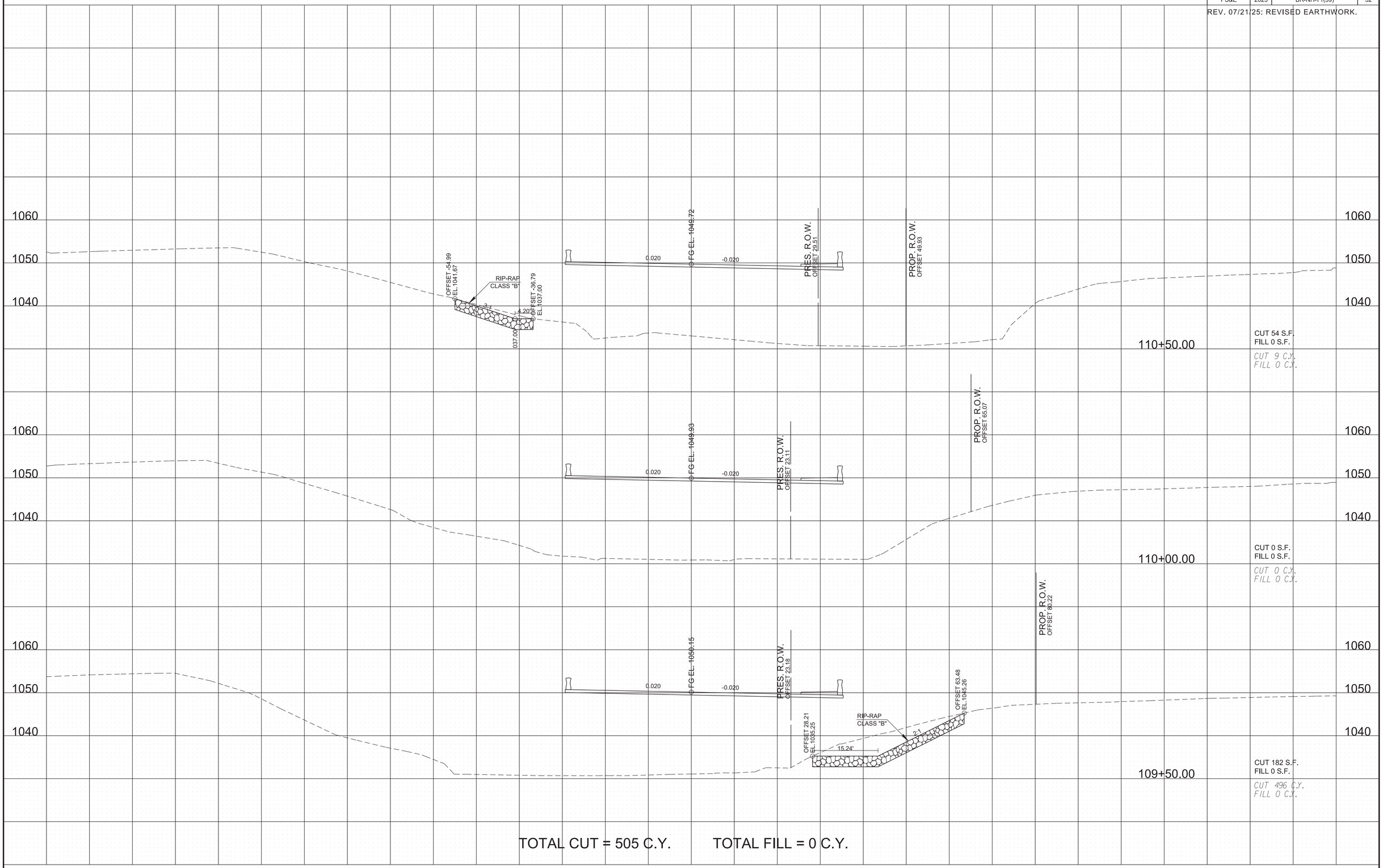
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 29 |
| PS&E | 2025 | BR-NH-71(39) | 32 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 505 C.Y. TOTAL FILL = 0 C.Y.

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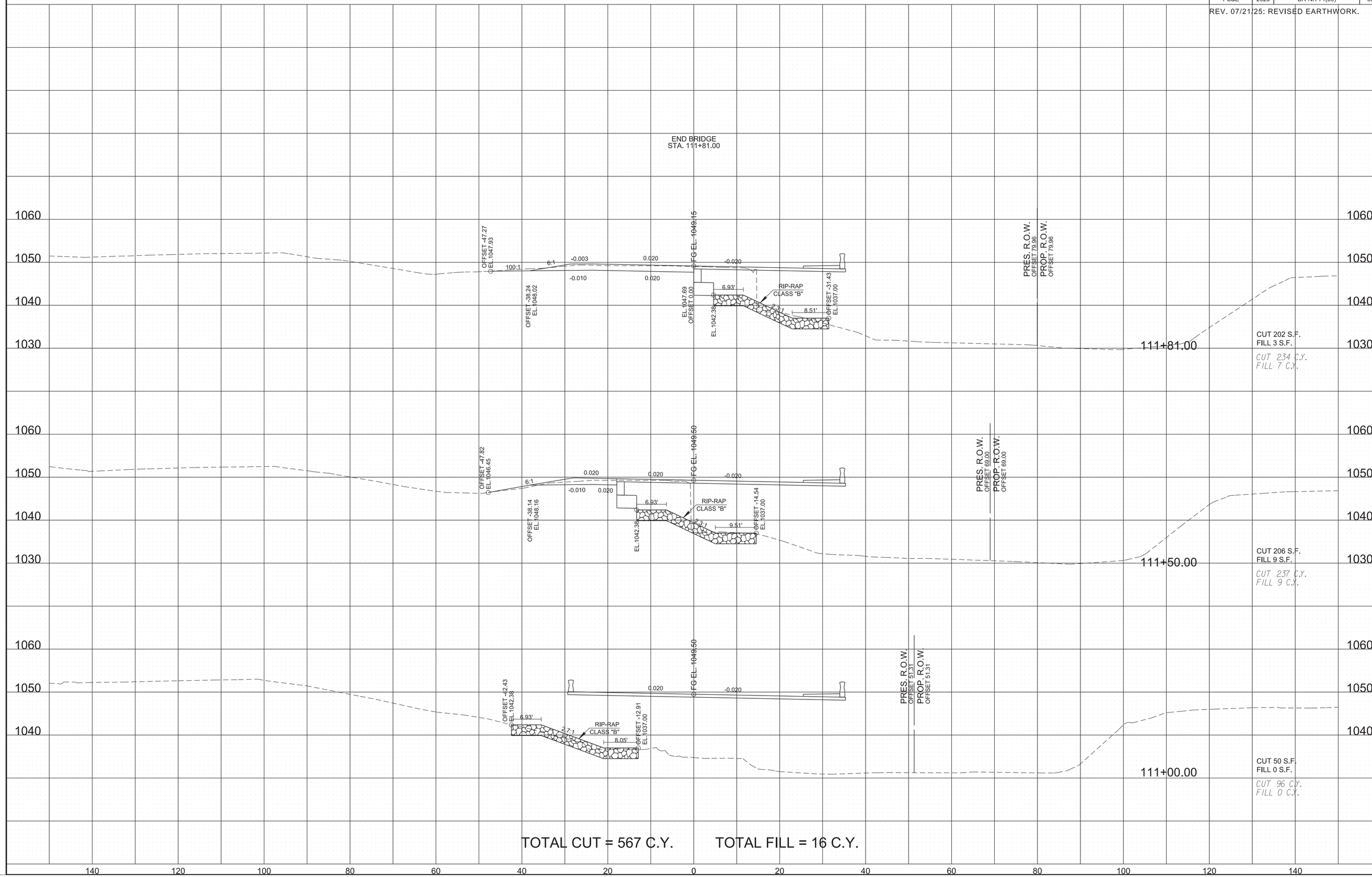
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 30 |
| PS&E | 2025 | BR-NH-71(39) | 33 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 567 C.Y. TOTAL FILL = 16 C.Y.

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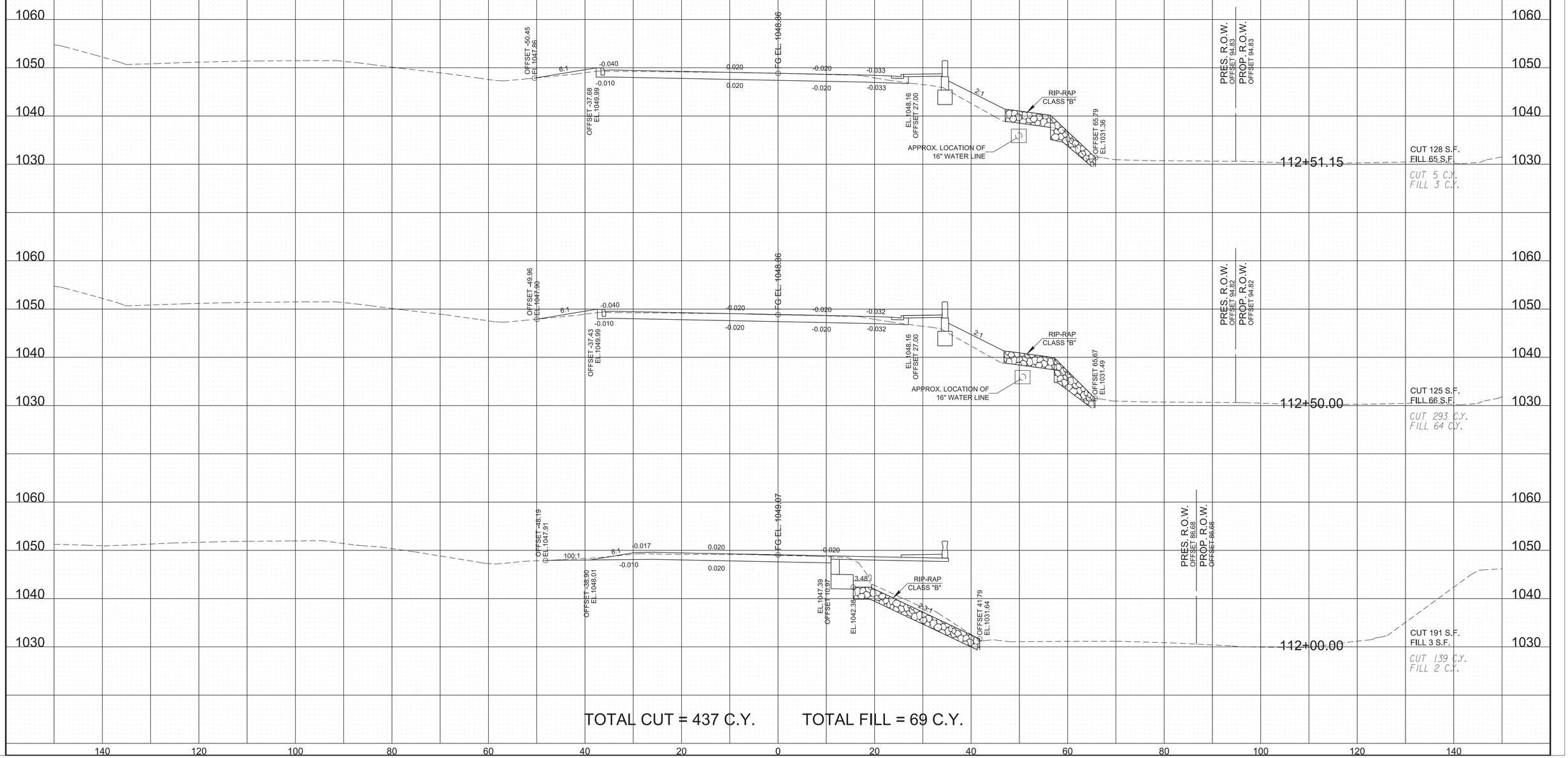
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 31 |
| PS&E | 2025 | BR-NH-71(39) | 34 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 437 C.Y. TOTAL FILL = 69 C.Y.

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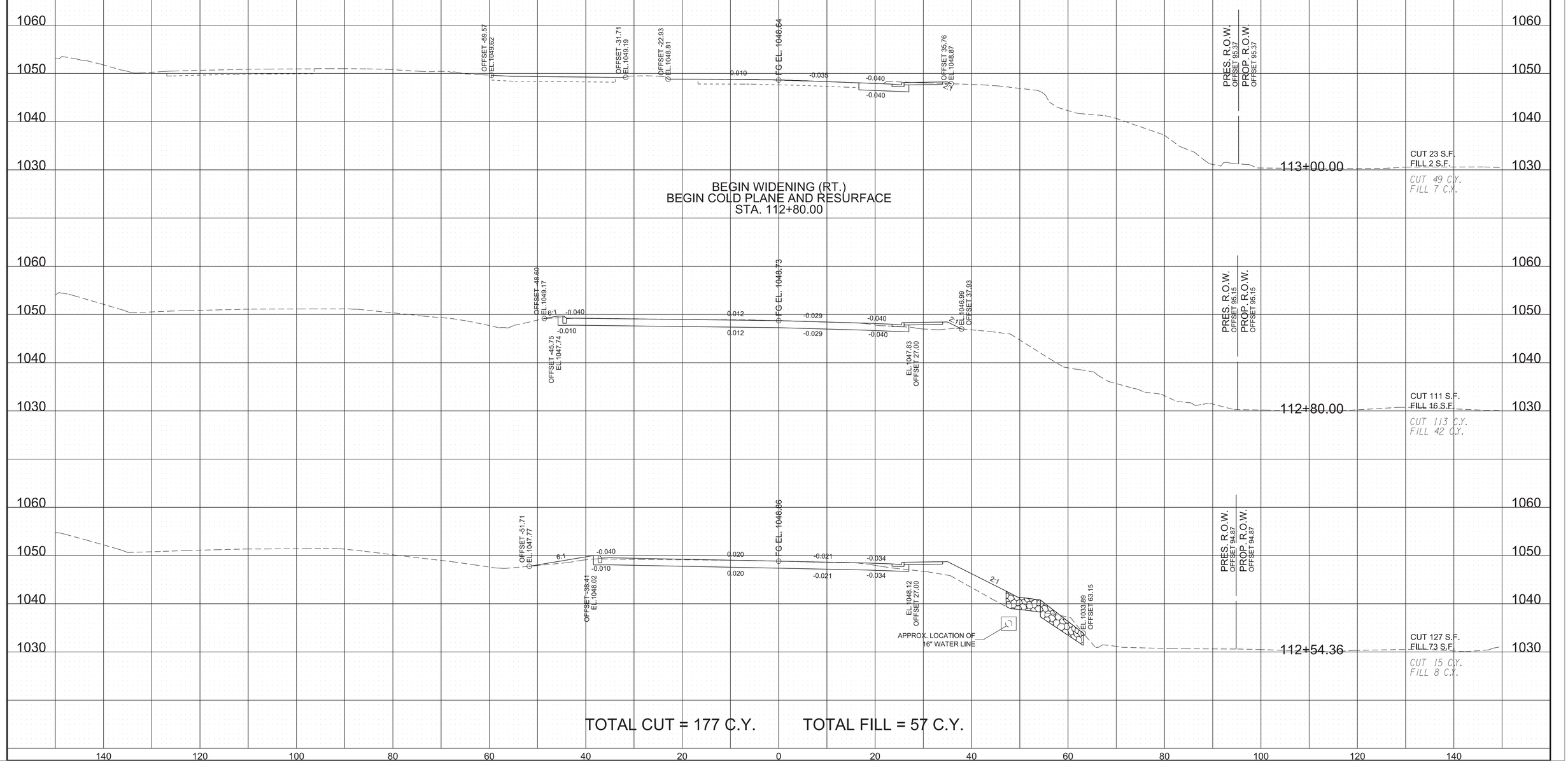
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 32 |
| PS&E | 2025 | BR-NH-71(39) | 35 |

REV. 07/21/25: REVISED EARTHWORK.




TOTAL CUT = 177 C.Y. TOTAL FILL = 57 C.Y.

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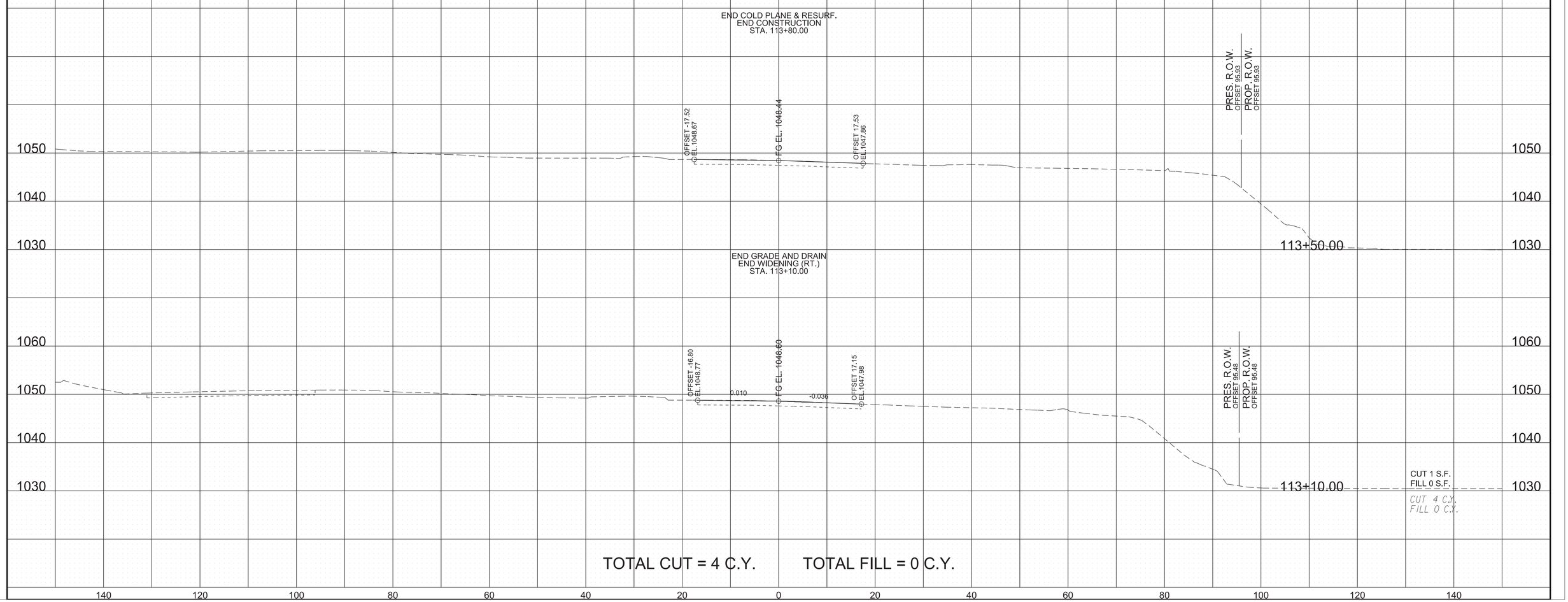
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| R.O.W. | 2021 | BR-NH-71(39) | 33 |
| PS&E | 2025 | BR-NH-71(39) | 36 |

REV. 07/21/25: REVISED EARTHWORK.

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| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T2 |

REV. 07/21/25: REVISED ITEM NOS. 712-02.12, 712-02.60, 712-04.01, 712-04.50, 712-05.01, AND 716-05.20. ADDED NOTE 1 TO PHASE 1 QUANTITY COLUMN.

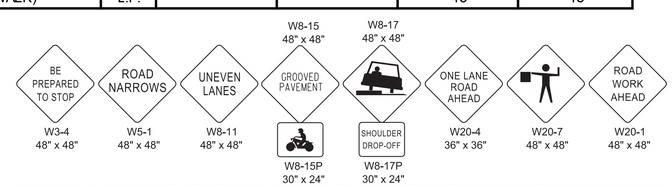
## TRAFFIC CONTROL SIGN TABULATION

| M.U.T.C.D. SIGN NO. | LEGEND | SIZE IN INCHES L | X | W | S.F. | NO. REQUIRED PHASE 1 | NO. REQUIRED PHASE 2 | NO. REQUIRED PHASE 3 | TOTAL NO. REQUIRED | ITEM NO. 712-06 S.F. | STANDARD DRAWING NO. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G20-2 | END ROAD WORK | 48" | X | 24" | 8 | 5 | 5 | 5 | 5 | 40 | T-WZ-10 | |
| M4-8 | DETOUR | 24" | X | 12" | 2 | | | 9 | 9 | 18 | | DETOUR - PHASE 3 |
| M4-8A | END DETOUR | 24" | X | 18" | 3 | | | 2 | 2 | 6 | | DETOUR - PHASE 3 |
| M5-1R | ADVANCE TURN RIGHT ARROW | 21" | X | 15" | 2 | | | 2 | 2 | 4 | | DETOUR - PHASE 3 |
| M6-1L | LEFT TURN ARROW | 21" | X | 15" | 2 | | | 1 | 1 | 2 | | DETOUR - PHASE 3 |
| M6-1R | RIGHT TURN ARROW | 21" | X | 15" | 2 | | | 4 | 4 | 9 | | DETOUR - PHASE 3 |
| M6-3 | STRAIGHT ARROW | 21" | X | 15" | 2 | | | 2 | 2 | 4 | | DETOUR - PHASE 3 |
| MOD. | SPRING VALLEY RD | 30" | X | 24" | 5 | | | 9 | 9 | 45 | | DETOUR - PHASE 3 |
| R4-9 | STAY IN LANE | 48" | X | 60" | 20 | 2 | 2 | | 2 | 40 | T-WZ-16 | |
| R9-9 | SIDEWALK CLOSED | 24" | X | 12" | 2 | | | 1 | 1 | 2 | T-WZ-55 | |
| SPECIAL | SPRING VALLEY RD CLOSED AT S.R. 71 1 MILE AHEAD | 60" | X | 30" | 13 | | | 2 | 2 | 25 | | DETOUR - PHASE 3 |
| W1-4BR | LANE SHIFT | 48" | X | 48" | 16 | 2 | 2 | | 2 | 32 | T-WZ-16 | |
| W1-4BL | LANE SHIFT | 48" | X | 48" | 16 | 2 | 2 | | 2 | 32 | T-WZ-16 | |
| W5-1 | ROAD NARROWS | 48" | X | 48" | 16 | 2 | 2 | | 2 | 32 | | |
| W3-4 | BE PREPARED TO STOP | 48" | X | 48" | 16 | 2 | | | 2 | 32 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W8-11 | UNEVEN LANES | 48" | X | 48" | 16 | 2 | | | 2 | 32 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W8-15 | GROOVED PAVEMENT | 48" | X | 48" | 16 | 2 | | | 2 | 32 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W8-15P | MOTORCYCLE (PLAQUE) | 30" | X | 24" | 5 | 2 | | | 2 | 10 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W8-17 | SHOULDER DROP OFF (SYMBOL) | 48" | X | 48" | 16 | 2 | | | 2 | 32 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W8-17P | SHOULDER DROP OFF (PLAQUE) | 30" | X | 24" | 5 | 2 | | | 2 | 10 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W20-1 | ROAD WORK 1 MILE | 48" | X | 48" | 16 | 2 | 2 | 2 | 2 | 32 | T-WZ-10 | |
| W20-1 | ROAD WORK 1/2 MILE | 48" | X | 48" | 16 | 2 | 2 | 2 | 2 | 32 | T-WZ-10 | |
| W20-1 | ROAD WORK AHEAD | 48" | X | 48" | 16 | 3 | 3 | 3 | 3 | 48 | T-WZ-10 | |
| W20-2 | DETOUR AHEAD | 36" | X | 36" | 9 | | | 3 | 3 | 27 | | DETOUR - PHASE 3 |
| W20-4 | ONE LANE ROAD AHEAD | 36" | X | 36" | 9 | 2 | | | 2 | 18 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W20-7 | FLAGGER (SYMBOL) | 48" | X | 48" | 16 | 2 | | | 2 | 32 | | TO BE USED WHEN CONST. OPS. WARRANT |
| W21-5R | RIGHT SHOULDER CLOSED 1500 FT | 48" | X | 48" | 16 | | | 1 | 1 | 16 | T-WZ-18 | |
| W21-5R | RIGHT SHOULDER CLOSED | 48" | X | 48" | 16 | | | 1 | 1 | 16 | T-WZ-18 | |
| | | | | | | | | | TOTAL | 661 | S.F. | |

## TABULATED TRAFFIC CONTROL QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | (1) PHASE 1 QUANTITY 78008-3264-94 | PHASE 2 QUANTITY | PHASE 3 QUANTITY | TOTAL QUANTITY |
|---|---|---|---|---|---|---|
| 303-01 | MINERAL AGGREGATE, TYPE A BASE, GRADING D | TON | 783 | 170 | | 953 |
| 307-01.08 | ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2 | TON | 193 | 28 | | 221 |
| 402-01 | BITUMINOUS MATERIAL FOR PRIME COAT (PC) | TON | 2.6 | 0.4 | | 3 |
| 403-01 | BITUMINOUS MATERIAL FOR TACK COAT (TC) | TON | 0.8 | 0.2 | | 1 |
| 411-02.10 | ACS MIX(PG70-22) GRADING D | TON | 112 | 16 | | 128 |
| 415-01.01 | COLD PLANING BITUMINOUS PAVEMENT | TON | 96 | | | 96 |
| 712-02.10 | PORTABLE BARRIER RAIL (MASH TL-3) | L.F. | 900 | 720 | 1200 | 2820 |
| 712-02.12 | PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3) | L.F. | 580 | 880 | 600 | 2060 |
| 712-02.60 | TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3) | EACH | 2 | 2 | 2 | 6 |
| 712-04.01 | FLEXIBLE DRUMS (CHANNELIZING) | EACH | 114 | 58 | 10 | 182 |
| 712-04.50 | BARRIER RAIL DELINEATOR | EACH | 56 | 75 | 83 | 214 |
| 712-05.01 | WARNING LIGHTS (TYPE A) | EACH | 57 | 29 | 5 | 91 |
| 712-06 | SIGNS (CONSTRUCTION) | S.F. | 661 | | | 661 |
| 712-07.02 | TEMPORARY BARRICADES (TYPE II) | L.F. | | | 10 | 10 |
| 712-07.03 | TEMPORARY BARRICADES (TYPE III) | L.F. | | 36 | 36 | 72 |
| 712-08.03 | ARROW BOARD (TYPE C) | EACH | 1 | 1 | 1 | 1 |
| 712-09.04 | REMOVABLE PAVEMENT MARKING (STOP LINE) | L.F. | 62 | 52 | | 114 |
| 713-02.14 | FLEXIBLE DELINEATOR (WHITE) | EACH | | 40 | | 40 |
| 713-02.15 | FLEXIBLE DELINEATOR (YELLOW) | EACH | 45 | | | 45 |
| 716-01.11 | RAISED PVMT MARKERS (BI-DIRECTIONAL) (1 COLOR LENS) | EACH | 45 | 42 | | 87 |
| 716-05.20 | PAINTED PAVEMENT MARKING (6" LINE) | L.M. | 1.6 | 1.3 | 0.7 | 3.6 |
| 716-05.22 | PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK) | L.F. | | | 45 | 45 |

(1) QUANTITIES FOR 'TEMPORARY PAVEMENT INSTALLATION - PRIOR TO PHASED CONSTRUCTION' ARE INCLUDED UNDER THE PHASE 1 QUANTITY COLUMN.




SIGNS SHOWN ABOVE ARE TO BE USED WHEN CONSTRUCTION OPERATIONS WARRANT. TO BE USED AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL NOTES

THE CONSTRUCTION SIGNING PLANS ARE TO SERVE AS A GUIDE ONLY. OTHER SIGNS MAY BE REQUIRED DURING VARIOUS PHASES OF CONSTRUCTION.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF INSTALLING TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

ALL CONSTRUCTION SIGNS ON THE PROJECT SHALL BE COVERED WHEN WORK WILL NOT BE AFFECTING TRAFFIC. COST OF COVERING/UNCOVERING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COST SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

THE CONTRACTOR IS TO MAINTAIN ACCESS TO ALL LOCAL PROPERTY OWNERS.

ALL TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE TDOT MANAGER.

### TRAFFIC CONTROL LEGEND

| SYMBOL | ITEM |
|---|---|
| | TEMPORARY ATTENUATOR |
| | ARROW BOARD TYPE C |
| | ARROW BOARD TYPE C (CAUTION) |
| | FLEXIBLE DELINEATOR (GROUND MOUNTED) |
| | FLEXIBLE DRUMS (CHANNELIZING) |
| | PORTABLE BARRIER RAIL |
| | PORTABLE BARRIER RAIL (WITH BARRIER RAIL DELINEATORS) |
| | SIGN (CONSTRUCTION) |
| | TEMPORARY BARRICADE (TYPE II) |
| | TEMPORARY BARRICADE (TYPE III) |
| | TRAFFIC FLOW |
| | WORK ZONE |

SEALED BY


07/22/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL LEGEND AND TABULATION

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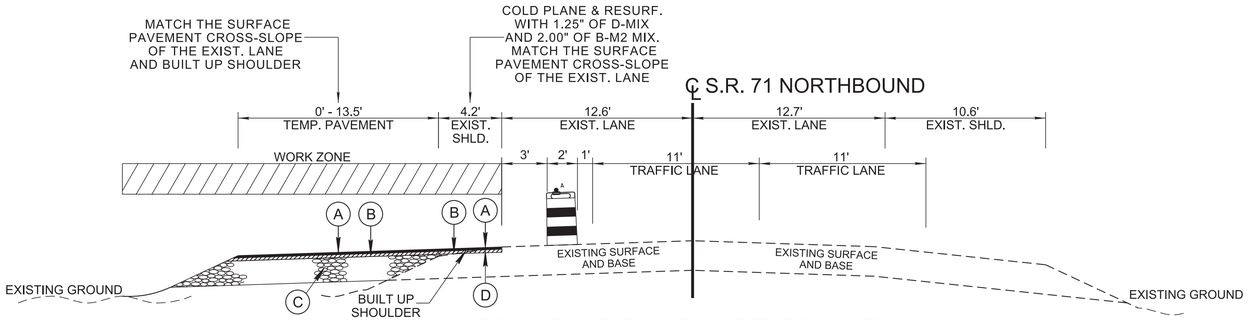
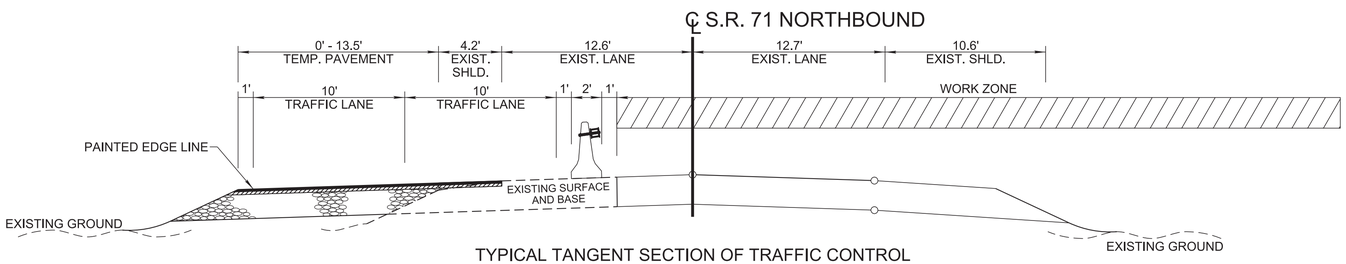
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T3 |
| | | | |
| | | | |
| | | | |

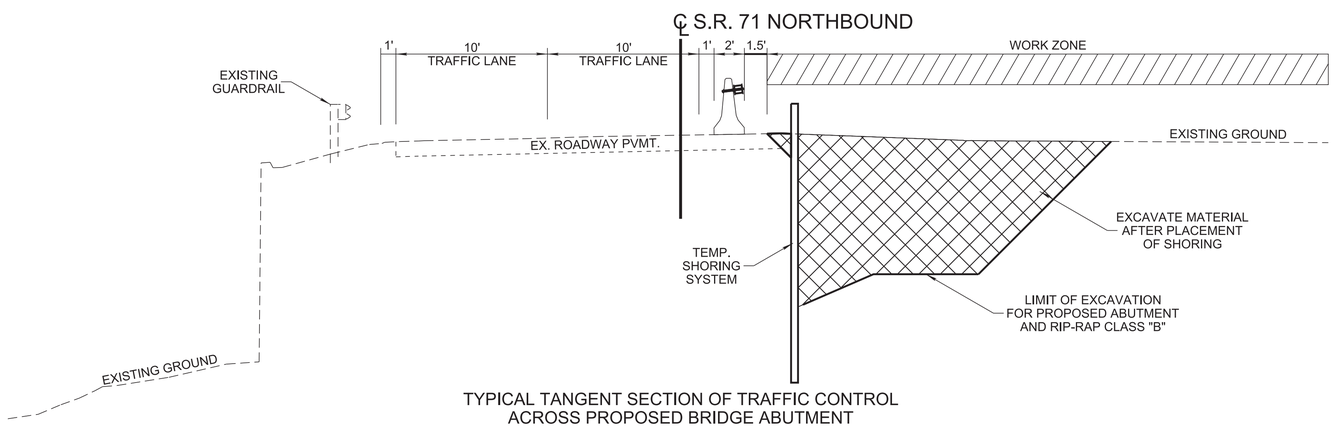
REV. 07/21/25: REVISED TRAFFIC CONTROL PHASING NOTES. REPLACED CONC. BARRIER RAIL WITH FLEXIBLE DRUMS ON TEMP. PVMT. INSTALLATION TYPICAL.




TYPICAL TANGENT SECTION OF TRAFFIC CONTROL
TEMPORARY PAVEMENT INSTALLATION




TYPICAL TANGENT SECTION OF TRAFFIC CONTROL
PHASE 1




TYPICAL TANGENT SECTION OF TRAFFIC CONTROL
ACROSS PROPOSED BRIDGE ABUTMENT
PHASE 1

NOTE: SHORING SHOWN IS CONCEPTUAL AND DOES NOT RELIEVE THE CONTRACTOR OF DETERMINING ITS MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT SHORING PLANS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF TENNESSEE TO THE DEPARTMENT FOR REVIEW PRIOR TO BEGINNING THE WORK. THE CONTRACTOR'S SHORING PLAN SUBMITTAL SHALL INCLUDE ANY CHANGES TO TRAFFIC CONTROL OR EROSION CONTROL PLANS OR OTHER SHORING NOT DEPICTED HEREIN DEEMED NECCESSARY BY THE CONTRACTOR TO COMPLETE THE WORK. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS PRIOR TO SUBMITTAL OF SHORING PLANS.

NOTE: AT A MINIMUM, 2 - 10' TRAFFIC LANES WITH 1' SHOULDERS SHALL BE MAINTAINED ALONG S.R. 71 NORTHBOUND THROUGH ALL PHASES OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE TDOT MANAGER.

## TRAFFIC CONTROL PHASING NOTES

### TEMPORARY PAVEMENT INSTALLATION - PRIOR TO PHASED CONSTRUCTION

1) INSTALL ROAD WORK TRAFFIC CONTROL SIGNS AND PAINTED PAVEMENT MARKINGS SETUP FOR LANE SHIFT OR AS DIRECTED BY THE TDOT MANAGER.
2) INSTALL FLEXIBLE DRUMS, INCLUDING LANE SHIFT TAPER, ALONG THE EXISTING INSIDE (LT.) SHOULDER FOR TEMPORARY PAVEMENT INSTALLATION OR AS DIRECTED BY THE TDOT MANAGER.
3) SHIFT TRAFFIC ONTO OUTSIDE SHOULDER (RT.) TO MAINTAIN 2-11' TRAFFIC LANES WITH 1' SHOULDERS AS SHOWN ON TRAFFIC CONTROL TYPICAL.
4) COLD PLANE UP TO 3.25" ON THE EXISTING INSIDE SHOULDER (LT.) AND BUILD SHOULDER UP TO MATCH THE SURFACE PAVEMENT CROSS-SLOPE OF THE EXISTING LANE. INSIDE SLOPES TO TIE INTO THE EXISTING GRASS MEDIAN. TO BE DETERMINED IN FIELD, MUST BE APPROVED BY THE TDOT MANAGER.
5) CONSTRUCT TEMPORARY PAVEMENT USED FOR PHASE 1 TRAFFIC OPERATIONS. SEE TRAFFIC CONTROL TYPICAL SECTION - TEMPORARY PAVEMENT INSTALLATION FOR DETAILS. MATCH THE SURFACE PAVEMENT CROSS-SLOPE OF THE EXISTING LANE AND BUILT UP SHOULDER.

### PHASE 1

1) INSTALL ROAD WORK TRAFFIC CONTROL SIGNS, DEVICES AND PAVEMENT MARKINGS RECOMMENDED FOR PHASE 1.
2) INSTALL PORTABLE CONCRETE BARRIER RAIL AT THE CENTER OF THE EXISTING LEFT LANE AND EXTEND TO LIMITS OF PHASE 1 TRAFFIC OPERATIONS.
3) SHIFT TRAFFIC ONTO TEMPORARY AND EXISTING PAVEMENT AS SHOWN ON THE PHASE 1 TRAFFIC CONTROL TYPICAL AND LAYOUT SHEETS.
4) CONSTRUCT HAUL ROAD 4 FOR USE IN THE PARTIAL DEMOLITION OF THE EXISTING BRIDGE AND CONSTRUCTION OF THE NEW BRIDGE ON THE NORTH SIDE OF THE RIVER (STR-1). INSTALL RIP-RAP AROUND BRIDGE ABUTMENTS.
5) REMOVE HAUL ROAD 4 BEYOND THE LIMITS OF THE CONSTRUCTED BRIDGE ABUTMENT AND RESTORE STR-1 TO ITS PRECONSTRUCTION CONDITION BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED.
6) CONSTRUCT HAUL ROAD 1 FOR USE IN THE PARTIAL DEMOLITION OF THE EXISTING BRIDGE AND CONSTRUCTION OF THE NEW BRIDGE ON THE SOUTH SIDE OF THE RIVER (STR-1). INSTALL RIP-RAP AROUND BRIDGE ABUTMENTS.
7) REMOVE HAUL ROAD 1 BEYOND THE LIMITS OF THE CONSTRUCTED BRIDGE ABUTMENT AND RESTORE STR-1 TO ITS PRECONSTRUCTION CONDITION BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED.
8) CONSTRUCT PROPOSED CROSS-DRAINS, SPECIAL DITCHES, AND CATCH BASINS. REMOVE EXISTING DRAINAGE FEATURES AS SHOWN IN THE PLANS.
9) CONTRUCT PROPOSED S.R. 71 ROADWAY (RT.).
10) CONSTRUCT TEMPORARY PAVEMENT USED FOR PHASE 2 TRAFFIC OPERATIONS. SEE TRAFFIC CONTROL PHASE 2 TYPICAL. MATCH THE SURFACE PAVEMENT CROSS-SLOPE OF THE PROPOSED SHOULDER.

NOTE: ONLY ONE HAUL ROAD WILL BE CONSTRUCTED IN THE STREAM CHANNEL DURING ANY PHASE OF CONSTRUCTION TO MINIMIZE IMPACTS TO STR-1. WHEN ANY CONSTRUCTION PHASE IS COMPLETED THAT REQUIRED THE USE OF A HAUL ROAD, THAT HAUL ROAD SHALL BE REMOVED BEYOND THE LIMITS OF THE BRIDGE ABUTMENTS, AND STR-1 SHALL BE RESTORED TO ITS PRECONSTRUCTION CONDITIONS BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED. THE CONTRACTOR SHALL COORDINATE WITH TDOT REGION 1 ENVIRONMENTAL TO OBTAIN APPROVAL FOR THE RESTORATION OF STR-1 TO ITS PRECONSTRUCTION CONDITION. AT NO TIME DURING THE CONSTRUCTION OF THIS PROJECT WILL MORE THAN ONE HAUL ROAD BE PERMITTED TO ENTER THE STREAM CHANNEL AT ANY TIME.

NOTE: AT NO TIME SHALL THE CONTRACTOR BE PERMITTED TO WORK OUT OF PHASE OR MAKE AMENDMENTS TO THE TRAFFIC CONTROL PLAN WITHOUT WRITTEN AUTHORIZATION OF THE ASSISTANT CHIEF ENGINEER / REGION 1 DIRECTOR.

NOTE: THE CONTRACTOR SHALL COORDINATE WITH GARY RAGAN WITH THE CITY OF PIGEON FORGE (PHONE: 865-214-4151) PRIOR TO ANY LANE SHIFTS.

## PROPOSED PAVEMENT SCHEDULE FOR TRAFFIC CONTROL

| | |
|---|---|
| **(A) ASPHALTIC CONCRETE SURFACE (HOT MIX)**<br>411-02.10 ASPHALTIC CONCRETE MIX (PG 70-22) GRADING "D" @ 1.25" + THICK (APPROX. 132.5 LB./S.Y.)<br>403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (SEE SECTION 403.05 OF THE STANDARD SPECIFICATION FOR DETERMINING APPLICATION RATE IN THE FIELD) | **(C) MINERAL AGGREGATE BASE**<br>303-01 MINERAL AGGREGATE. TYPE "A" BASE, GRADING "D" @ 12.00" + THICK |
| **(B) BITUMINOUS PLANT MIX BASE (HOT MIX)**<br>307-01.08 ASPHALT CONCRETE MIX (PG64-22) GRADING "B-M2" @ 2.00" THICK (APPROX. 226 LB./S.Y.)<br>402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) (RATE 0.30 - 0.35 GAL./S.Y.) | **(D) COLD PLANING**<br>415-01.01 COLD PLANING BITUMINOUS PAVEMENT @ 3.25" THICK (APPROX. 341.3 LBS/SY) |

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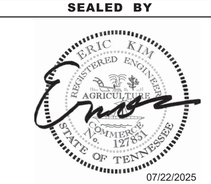


07/22/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL TYPICAL SECTIONS AND PHASING NOTES

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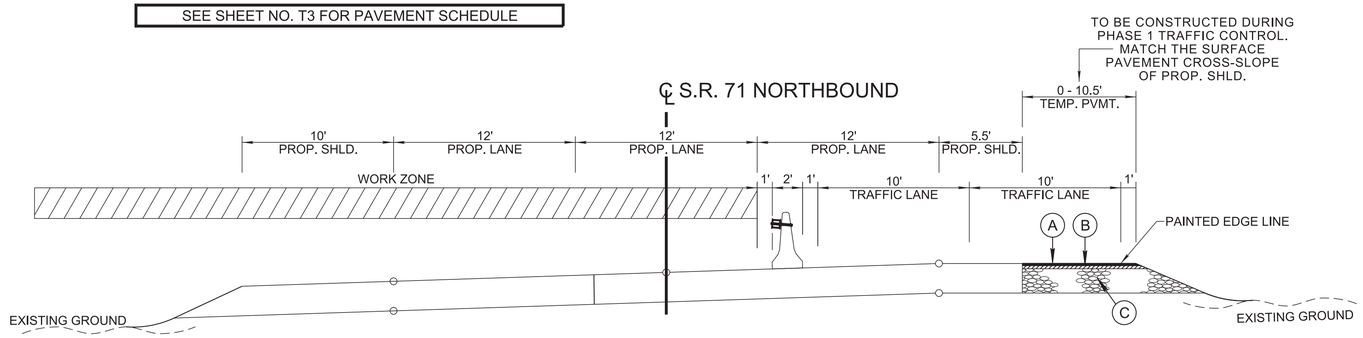
| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T4 |
| | | | |
| | | | |
| | | | |

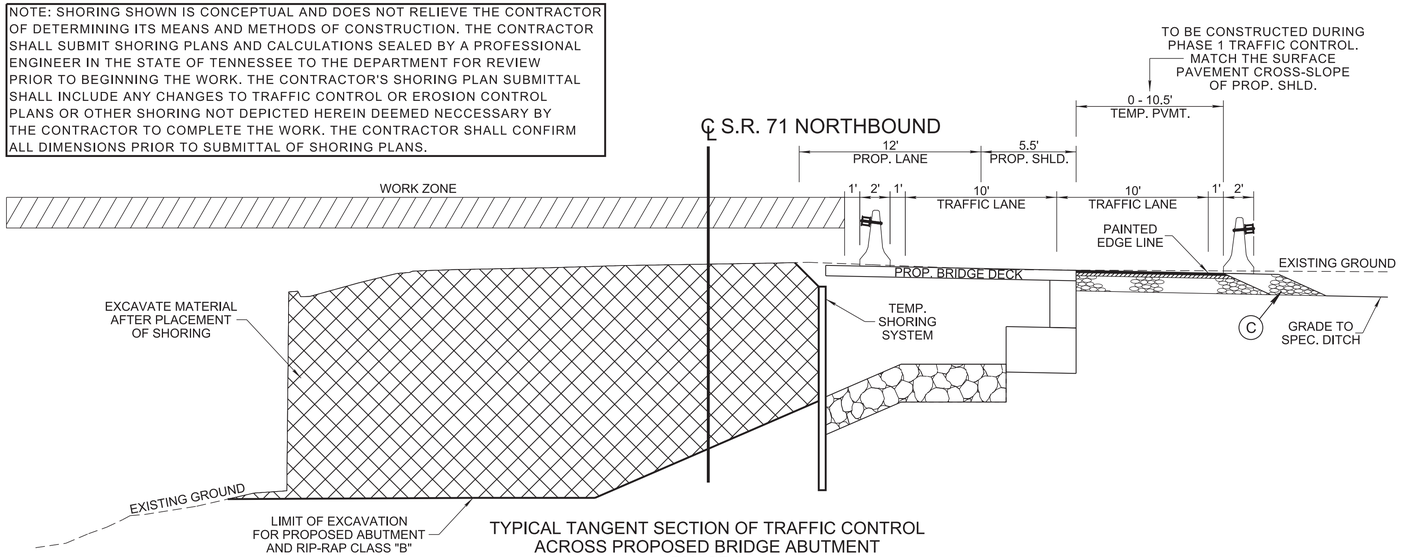
REV. 07/21/25: REVISED PHASE 3 TRAFFIC CONTROL NOTES. REVISED PHASE 2 TRAFFIC CONTROL TYPICAL SECTION ACROSS PROPOSED BRIDGE ABUTMENT. ADDED SPRING VALLEY ROAD CLOSURE NOTE.

SEE SHEET NO. T3 FOR PAVEMENT SCHEDULE

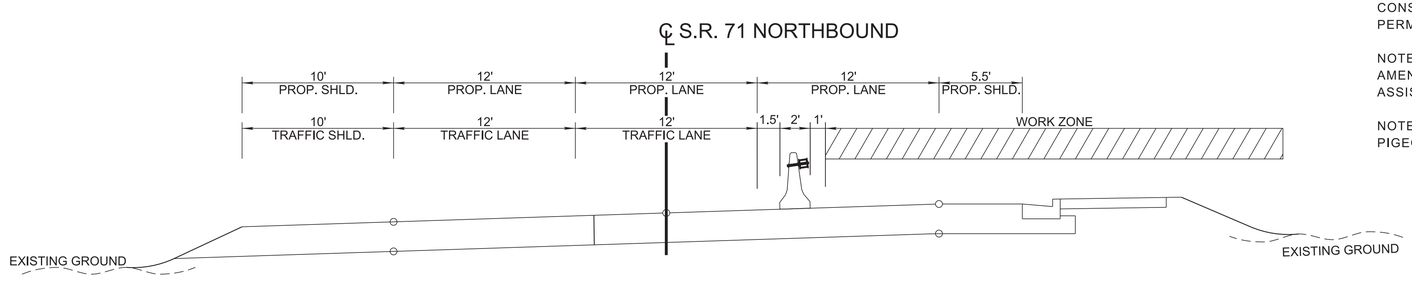



TYPICAL SUPERELEVATED SECTION OF TRAFFIC CONTROL
PHASE 2

NOTE: SHORING SHOWN IS CONCEPTUAL AND DOES NOT RELIEVE THE CONTRACTOR OF DETERMINING ITS MEANS AND METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT SHORING PLANS AND CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF TENNESSEE TO THE DEPARTMENT FOR REVIEW PRIOR TO BEGINNING THE WORK. THE CONTRACTOR'S SHORING PLAN SUBMITTAL SHALL INCLUDE ANY CHANGES TO TRAFFIC CONTROL OR EROSION CONTROL PLANS OR OTHER SHORING NOT DEPICTED HEREIN DEEMED NECCESSARY BY THE CONTRACTOR TO COMPLETE THE WORK. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS PRIOR TO SUBMITTAL OF SHORING PLANS.




TYPICAL TANGENT SECTION OF TRAFFIC CONTROL
ACROSS PROPOSED BRIDGE ABUTMENT
PHASE 2




TYPICAL SUPERELEVATED SECTION OF TRAFFIC CONTROL
PHASE 3

NOTE: AT A MINIMUM, 2 - 10' TRAFFIC LANES WITH 1' SHOULDERS SHALL BE MAINTAINED ALONG S.R. 71 NORTHBOUND THROUGH ALL PHASES OF CONSTRUCTION UNLESS OTHERWISE DIRECTED BY THE TDOT MANAGER.

## TRAFFIC CONTROL PHASING NOTES

### PHASE 2

1) UPDATE TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS FOR PHASE 2 TRAFFIC SHIFT.
2) SHIFT PORTABLE CONCRETE BARRIER RAIL USED IN PHASE 1 TO LEFT SIDE OF PROPOSED RIGHT LANE TO ALLOW 2 - 10' TRAFFIC LANES WITH 1' SHOUDERS AS SHOWN ON PHASE 2 TRAFFIC CONTROL TYPICAL AND LAYOUT SHEETS.
3) SHIFT TRAFFIC ONTO NEW LANES, NEW SHOULDERS, AND TEMPORARY PAVEMENT AS SHOWN ON THE PHASE 2 TRAFFIC CONTROL TYPICAL AND LAYOUT SHEETS.
4) REMOVE TEMPORARY PAVEMENT USED FOR PHASE 1 TRAFFIC OPERATIONS AND RESTORE MEDIAN AND PAVEMENT TO PRE-CONSTRUCTION CONDITIONS.
5) CONSTRUCT HAUL ROAD 3 FOR USE IN THE FINAL DEMOLITION OF THE EXISTING BRIDGE AND CONSTRUCTION OF THE NEW BRIDGE ON THE NORTH SIDE OF THE RIVER (STR-1). INSTALL RIP-RAP AROUND BRIDGE ABUTMENTS.
6) REMOVE HAUL ROAD 3 BEYOND THE LIMITS OF THE CONSTRUCTED BRIDGE ABUTMENT AND RESTORE STR-1 TO ITS PRECONSTRUCTION CONDITION BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED.
7) CONSTRUCT HAUL ROAD 2 FOR USE IN THE FINAL DEMOLITION OF THE EXISTING BRIDGE AND CONSTRUCTION OF THE NEW BRIDGE ON THE SOUTH SIDE OF THE RIVER (STR-1). INSTALL RIP-RAP AROUND BRIDGE ABUTMENTS.
8) REMOVE HAUL ROAD 2 BEYOND THE LIMITS OF THE CONSTRUCTED BRIDGE ABUTMENT AND RESTORE STR-1 TO ITS PRECONSTRUCTION CONDITION.
9) CONSTRUCT PROPOSED CROSS-DRAINS, END WALLS, AND RIP-RAP. REMOVE EXISTING DRAINAGE FEATURES AS SHOWN IN THE PLANS.
10) CONTRUCT NEW S.R. 71 ROADWAY (LT.).
11) INSTALL NEW GUARDRAIL ALONG THE NEW S.R. 71 ROADWAY (LT.).
12) REMOVE ANY REMNANTS OF HAUL ROADS PRIOR TO PHASE 3 TRAFFIC OPERATIONS AND CONSTRUCTION.

### PHASE 3

1) UPDATE TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS FOR PHASE 3 SHOULDER CLOSURE.
2) SHIFT PORTABLE CONCRETE BARRIER RAIL USED IN PHASE 2 TO LEFT SIDE OF PROPOSED RIGHT LANE TO ALLOW 2 - 12' TRAFFIC LANES WITH A 10' INSIDE (LT.) SHOULDER AND A 1.5' OUTSIDE (RT.) SHOULDER AS SHOWN ON PHASE 3 TRAFFIC CONTROL TYPICAL AND LAYOUT SHEETS.
3) DIRECT TRAFFIC ONTO NEW LANES AND CLOSE SHOULDER AND PROPOSED RIGHT LANE AS SHOWN ON THE PHASE 3 TRAFFIC CONTROL TYPICAL AND LAYOUT SHEETS.
4) REMOVE TEMPORARY PAVEMENT USED FOR PHASE 2 TRAFFIC OPERATIONS.
5) CONSTRUCT PROPOSED SPRING VALLEY ROAD INTERSECTION.
6) INSTALL PROPOSED CURB AND GUTTER AND SIDEWALK ALONG S.R. 71
7) INSTALL REMAINING PROPOSED STORM DRAINAGE SYSTEMS AND CURB INLETS.
8) INSTALL PROPOSED GUARDRAIL ALONG THE PROPOSED S.R. 71 ROADWAY (RT.).
9) COLD PLANE AND RESURFACE THE LIMITS SHOWN ON THE TRAFFIC CONTROL PLAN SHEETS ALONG S.R. 71 (SHEETS T5 - T7A). FOR THE LANES AND SHOULDERS, COLD PLANE 1.25" AND RESURFACE WITH 1.25" "D" MIX (PG 70-22).
10) COLD PLANE AND RESURFACE SPRING VALLEY ROAD AND HUSKEY STREET TO THE LIMITS OF CONSTRUCTION.
11) REMOVE TEMPORARY SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.

NOTE: SEE SHEET T8 FOR SPRING VALLEY ROAD CLOSURE DURING PHASE 3 TRAFFIC CONTROL. THE CLOSURE OF SPRING VALLEY ROAD SHALL NOT OCCUR DURING ANY TRAFFIC CONTROL PHASE OTHER THAN PHASE 3.

NOTE: ONLY ONE HAUL ROAD WILL BE CONSTRUCTED IN THE STREAM CHANNEL DURING ANY PHASE OF CONSTRUCTION TO MINIMIZE IMPACTS TO STR-1. WHEN ANY CONSTRUCTION PHASE IS COMPLETED THAT REQUIRED THE USE OF A HAUL ROAD, THAT HAUL ROAD SHALL BE REMOVED BEYOND THE LIMITS OF THE BRIDGE ABUTMENTS, AND STR-1 SHALL BE RESTORED TO ITS PRECONSTRUCTION CONDITIONS BEFORE THE NEXT HAUL ROAD IS CONSTRUCTED. THE CONTRACTOR SHALL COORDINATE WITH TDOT REGION 1 ENVIRONMENTAL TO OBTAIN APPROVAL FOR THE RESTORATION OF STR-1 TO ITS PRECONSTRUCTION CONDITION. AT NO TIME DURING THE CONSTRUCTION OF THIS PROJECT WILL MORE THAN ONE HAUL ROAD BE PERMITTED TO ENTER THE STREAM CHANNEL AT ANY TIME.

NOTE: AT NO TIME SHALL THE CONTRACTOR BE PERMITTED TO WORK OUT OF PHASE OR MAKE AMENDMENTS TO THE TRAFFIC CONTROL PLAN WITHOUT WRITTEN AUTHORIZATION OF THE ASSISTANT CHIEF ENGINEER / REGION 1 DIRECTOR.

NOTE: THE CONTRACTOR SHALL COORDINATE WITH GARY RAGAN WITH THE CITY OF PIGEON FORGE (PHONE: 865-214-4151) PRIOR TO ANY LANE SHIFTS.

SEALED BY


07/22/2025

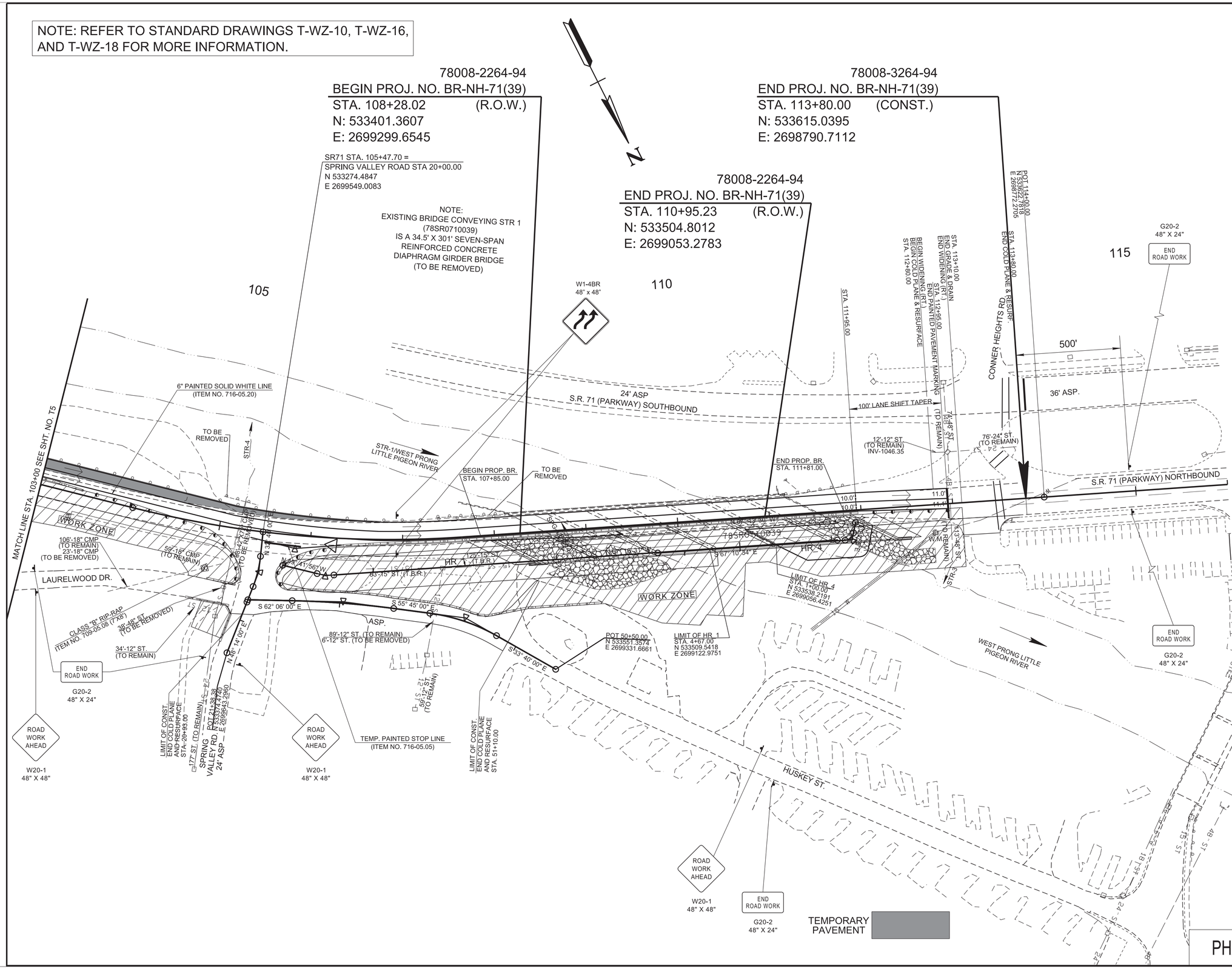
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL TYPICAL SECTIONS AND PHASING NOTES

NOTE: REFER TO STANDARD DRAWINGS T-WZ-10, T-WZ-16, AND T-WZ-18 FOR MORE INFORMATION.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T5A |
| | | | |
| | | | |
| | | | |

REV. 07/21/25: REMOVED PROPOSED GUARDRAIL LINEWORK BEFORE & AFTER THE BRIDGE.

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07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

**STATE OF TENNESSEE**
**DEPARTMENT OF TRANSPORTATION**

# TRAFFIC CONTROL PLANS

STA.103+00 TO STA.113+80
SCALE: 1"=50'

PHASE 1

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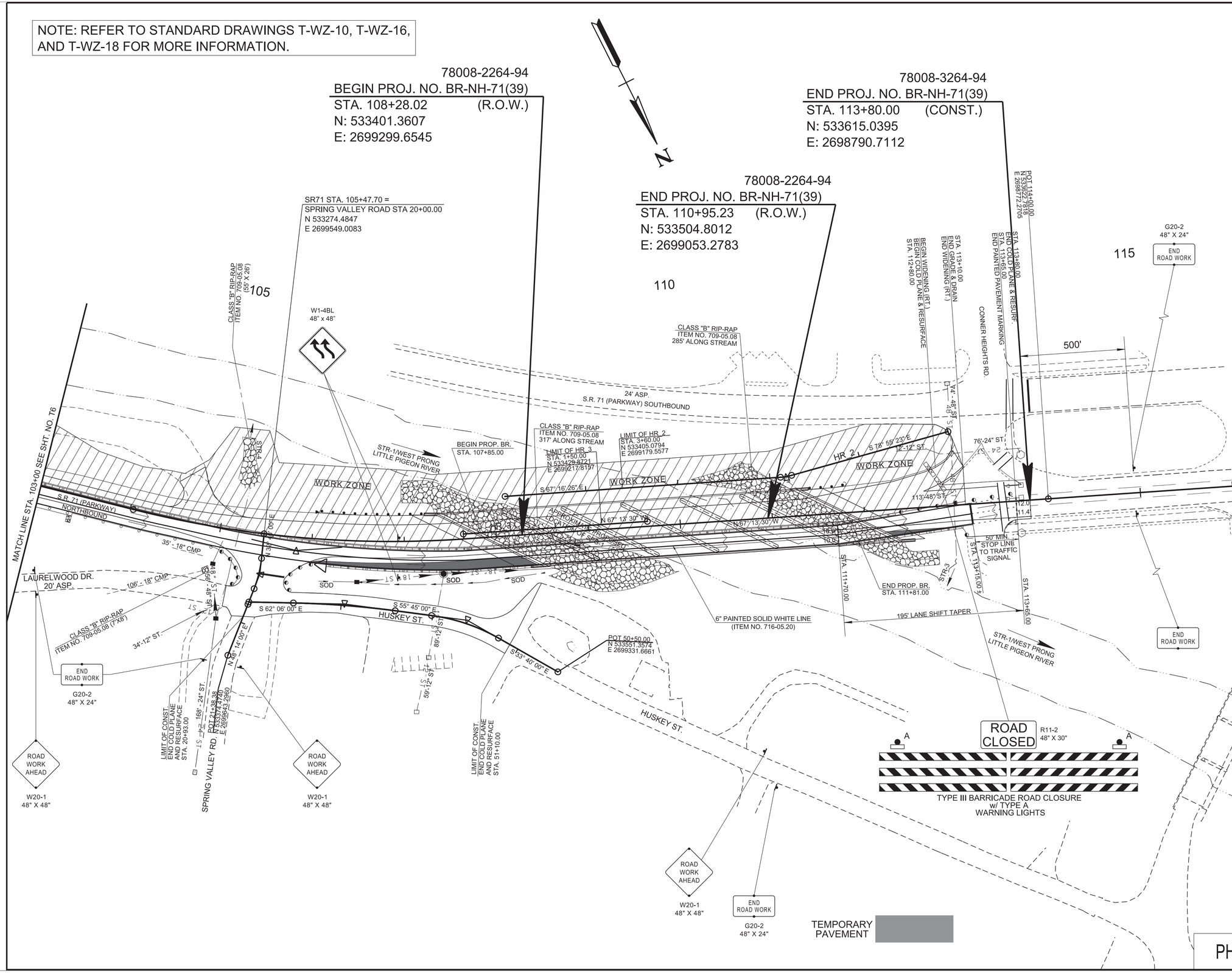
NOTE: REFER TO STANDARD DRAWINGS T-WZ-10, T-WZ-16, AND T-WZ-18 FOR MORE INFORMATION.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T6A |

REV. 07/21/25: ADDED PORTABLE CONCRETE BARRIER AT BRIDGE ABUTMENTS.




PHASE 2

SEALED BY

ERIC KIM
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
127831
STATE OF TENNESSEE

07/22/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# TRAFFIC CONTROL PLANS

STA.103+00 TO STA.113+80
SCALE: 1"=50'

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NOTE: THE CLOSURE OF SPRING VALLEY ROAD SHALL NOT OCCUR DURING ANY TRAFFIC CONTROL PHASE OTHER THAN PHASE 3.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| PS&E | 2025 | BR-NH-71(39) | T8 |
| | | | |
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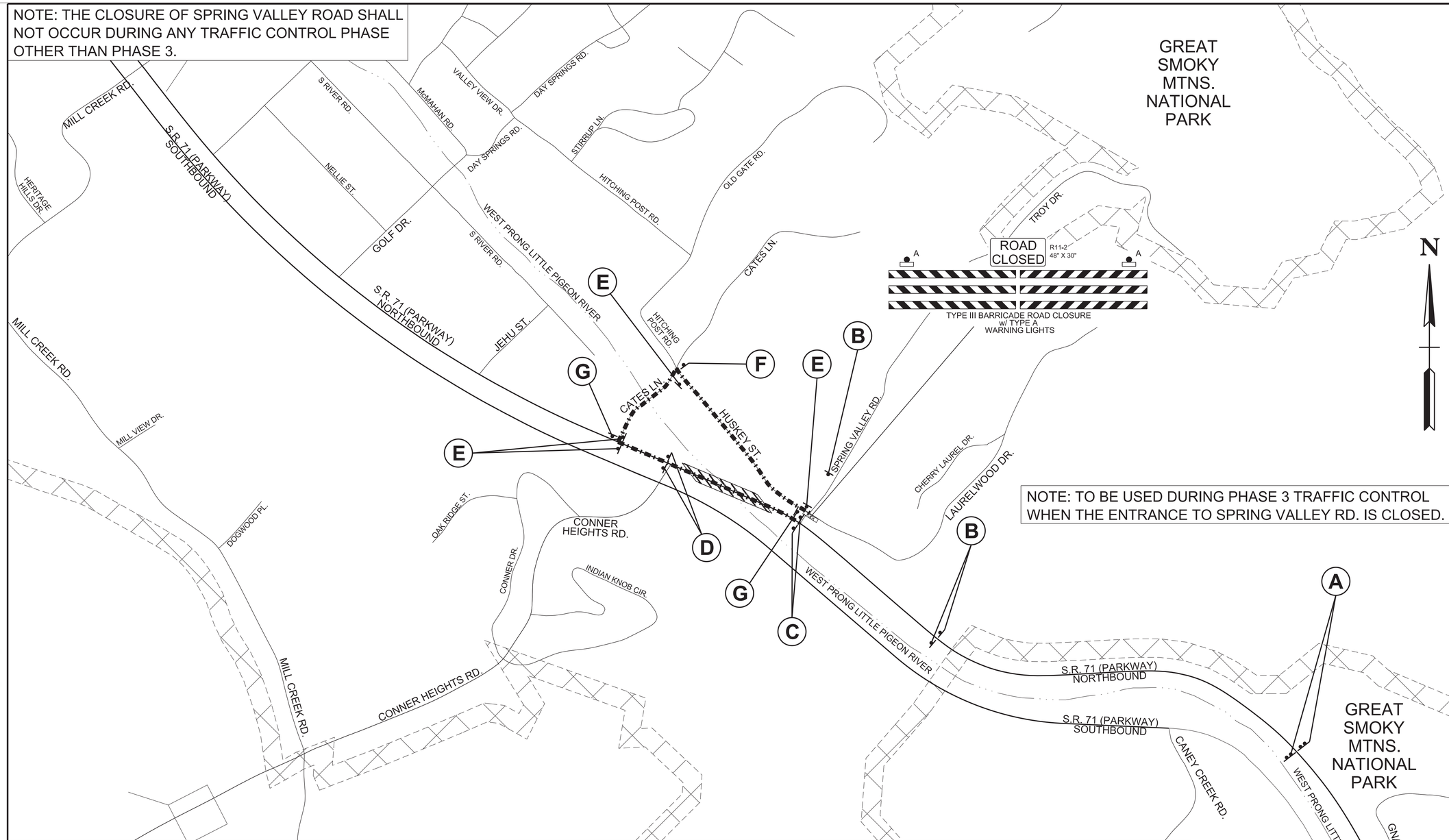
| | | | |

REV. 07/21/25: ADDED PHASE 3 ROADWAY CLOSURE NOTE.




NOTE: TO BE USED DURING PHASE 3 TRAFFIC CONTROL WHEN THE ENTRANCE TO SPRING VALLEY RD. IS CLOSED.

ROAD CLOSURE (SPECIAL) 60" X 30"
SPRING VALLEY RD CLOSED AT S.R. 71 1 MILE AHEAD
(A)

SPRING VALLEY RD — STREET NAME 30" X 24"
DETOUR AHEAD — W20-2 36" X 36"
(B)

DETOUR — M4-8 24" X 12"
SPRING VALLEY RD — STREET NAME 30" X 24"
M6-3 21" X 15"
(C)

DETOUR — M4-8 24" X 12"
SPRING VALLEY RD — STREET NAME 30" X 24"
M5-1R 21" X 15"
(D)

DETOUR — M4-8 24" X 12"
SPRING VALLEY RD — STREET NAME 30" X 24"
M6-1R 21" X 15"
(E)

DETOUR — M4-8 24" X 12"
SPRING VALLEY RD — STREET NAME 30" X 24"
M6-1L 21" X 15"
(F)

M4-8A 24" X 18"
END DETOUR
(G)

## TRAFFIC CONTROL LEGEND

| SYMBOL | ITEM |
|---|---|
| | SIGN (CONSTRUCTION) |
| | TEMPORARY BARRICADE (TYPE III) |
| | DETOUR ROUTE |

NOTE:
DETOUR SIGN LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL PLACEMENT LOCATIONS SHOULD BE COORDINATED WITH TDOT BEFORE ORDERING OR SETTING OF ANY SIGNS.

SEALED BY

ERIC KIM — REGISTERED ENGINEER — AGRICULTURE COMMERCE — No. 127763 — STATE OF TENNESSEE

07/22/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# DETOUR MAP
N.T.S.

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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

James Ramsey Date: 2025.06.24 19:18:52 -05'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

TENNESSEE DEPARTMENT OF TRANSPORTATION
JAMES K. POLK BUILDING, SUITE 1100
505 DEADERICK STREET
NASHVILLE, TN 37243
JAMES RIDGE RAMSEY, P.E. NO. 128648

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

**SHEET NAME** **SHEET NO.**



| YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|
| 2025 | BR-NH-71(39) | STRUCTURE-SIGN2 |
| | | |
| | | |
| | | |

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

CONST. NO.: 78008-3264-94

| PROJECT NO. | YEAR | SHEET NO. |
|---|---|---|
| BR-NH-71(39) | 2025 | B1 |

REVISIONS

| NO. | DATE | BY | BRIEF DESCRIPTION |
|---|---|---|---|
| 1 | 6-24-2025 | RR | REVISED SHEET INDEX |
| | - - | | |
| | - - | | |
| | - - | | |
| | - - | | |

## 1 LIST OF DRAWINGS



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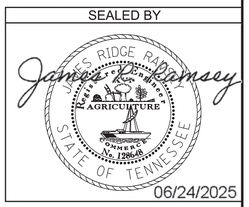



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

# INDEX OF DRAWINGS
# STATE ROUTE 71 (U.S. 321) OVER WEST FORK LITTLE PIGEON RIVER
# BRIDGE I.D. NO. 78SR0710039
# STATION 109+83.00
# LOG MILE 21.00
# SEVIER COUNTY
# 2025

| | | | |
|---|---|---|---|
| PIN NO.: | 124563.00 | | |
| DESIGN BY: | RIDGE RAMSEY | DATE: | 07/2024 |
| DRAWN BY: | RIDGE RAMSEY | DATE: | 07/2024 |
| SUPERVISED BY: | DAWOD BERWARY | DATE: | 07/2024 |
| CHECKED BY: | DAWOD BERWARY | DATE: | 08/2024 |

CONST. NO.: 78008-3264-94

| PROJECT NO. | YEAR | SHEET NO. |
|---|---|---|
| BR-NH-71(39) | 2025 | B3 |

REVISIONS

| NO. | DATE | BY | BRIEF DESCRIPTION |
|---|---|---|---|
| 1 | 6-24-2025 | RR | REVISED NOTES |
| | - - | | |
| | - - | | |
| | - - | | |
| | - - | | |

## GENERAL NOTES

**CONSTRUCTION SPECIFICATIONS:** TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021 EDITION).

**DESIGN SPECIFICATIONS:** 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.

**LOADING:**
HL-93 LIVE LOADING
SEISMIC DESIGN CATEGORY "A" WITH AS= 0.1772, SDS= 0.2861, SD1= 0.0627, (1000 YEAR RETURN PERIOD).
DEAD LOAD INCLUDES 35 LB/SQ. FT. FOR FUTURE WEARING SURFACE.

**CONCRETE:** TO BE CLASS A (CAST-IN-PLACE) F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.

**BRIDGE DECKS:** CLASS DS CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.

**BRIDGE DECK SURFACE FINISH:** TO BE IN ACCORDANCE WITH METHOD "3" IN ARTICLE 604.22 OF THE STANDARD SPECIFICATIONS.

**BRIDGE DECK FORMS**: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS SHALL BE REMAIN-IN-PLACE STEEL. FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO MAIN STRUCTURAL MEMBERS OR REINFORCING STEEL. TEMPORARY ERECTION DIAPHRAGMS MUST BE USED AT THE ENDS OF PRECAST CONCRETE GIRDERS WHERE END DIAPHRAGMS, SUPPORT DIAPHRAGMS, OR ABUTMENT ENDWALLS ARE TO BE POURED CONCURRENTLY WITH THE DECK AND SHALL BE PROVIDED ELSEWHERE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS TO PREVENT GIRDER ROTATION. SEE STANDARD DRAWING STD-14- 3 AND ARTICLE 604.05 OF THE STANDARD SPECIFICATIONS.

**REINFORCING STEEL:** SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTIONS 604 AND 907 OF THE STANDARD SPECIFICATIONS.

**END-BEARING STEEL PILES:** TO BE HP 10 X 42 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 110 TONS FOR THE ABUTMENTS. ALL PILES SHALL BE ASTM A709 GRADE 50 STEEL.

**PILE TIPS:** PILES SHALL BE EQUIPPED WITH CAST STEEL POINTS. ALSO, SEE STANDARD DRAWING STD-5-1 FOR ADDITIONAL NOTES.

**STREAM CHANNEL:** ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G. PIER/BENT FOOTING, RIP-RAP PLACEMENT, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR TEMPORARY DIVERSION CHANNELS (EC-STR-31).

**DRILLED SHAFTS:** SEE SPECIAL PROVISION 625 REGARDING DRILLED SHAFT SPECIFICATIONS.

**UTILITIES**: IT IS INTENDED THAT THE COST OF MATERIALS AND LABOR NECESSARY FOR THE COMPLETE INSTALLATION OF UTILITIES SHALL BE BORNE BY OTHERS AND SHALL NOT BE PAID FOR AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHERS IN THE INSTALLATION OF UTILITIES WITH NO ADDITIONAL COMPENSATION ALLOWED THE CONTRACTOR AS A RESULT.

**SHOP DRAWINGS:** SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

**PARAPET SYSTEM:** BUILD PARAPETS ACCORDING TO STANDARD DRAWINGS STD-11-2 & 11-3. THE PARAPETS SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE TRAFFIC FACE SHALL BE KEPT CONSTANT, WITH VARIATION DUE TO CROSS-SLOPE ACCOMMODATED AT THE REAR FACE.

**RIP-RAP:** MACHINED RIP-RAP SHALL BE CLASS "B" IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE MEASURED AND PAID FOR UNDER ROADWAY ITEM NO. 709-05-08.

**VALUE ENGINEERING ALTERNATE BRIDGE DESIGN CRITERIA:** ALTERNATE BRIDGE DESIGN PROPOSALS MAY NOT DIMINISH THE FUNCTIONAL OR STRUCTURAL EQUIVALENCY OF THE BRIDGE AND MUST MEET OR EXCEED THE CAPACITIES OF THE CONTRACT PLANS STRUCTURE AT ALL LIMIT STATES IN AASHTO TABLE 3.4.1-1. ADDITIONALLY, THE WATERWAY OPENING AND FLOOD CLEARANCES MAY NOT BE REDUCED.

**REQUIREMENTS AND RESTRICTIONS FOR PHASE CONSTRUCTION:**

1.) THE PHASE CONSTRUCTION SEQUENCE MAY PROHIBIT THE EXTRACTION OF SOME SHEET PILING. ALL COSTS ASSOCIATED WITH SHEET PILING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

2.) THE LOCATION OF LONGITUDINAL CONSTRUCTION JOINTS SHALL NOT BE CHANGED TO ACCOMMODATE STAY-IN-PLACE DECK FORMS.

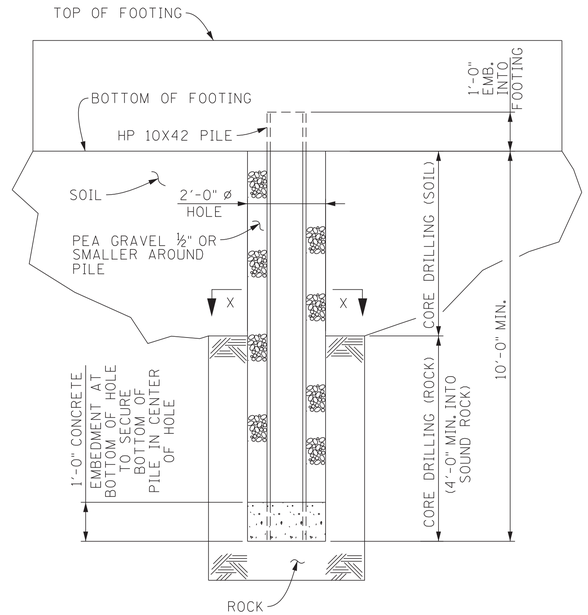
3.) NO SHEET PILES OR BEARING PILES MAY BE DRIVEN FROM THE EXISTING OR PROPOSED STRUCTURE.

4.) (2) – 11'-0" TRAFFIC LANES SHALL BE MAINTAINED AT ALL TIMES.

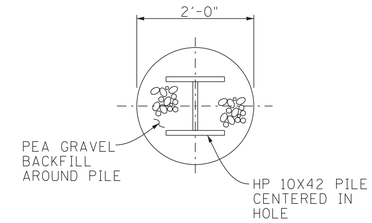
**LEAD/CHROMATE PAINT:** OUR MAINTENANCE RECORDS INDICATE THE BEARINGS WERE ORIGINALLY PAINTED WITH MATERIALS CONTAINING LEAD AND/OR CHROMATES. THE CONTRACTOR IS REQUIRED TO PROCEED ACCORDINGLY TO TAKE ALL MANDATORY SAFEGUARDS PRESCRIBED BY STATE AND FEDERAL LAW FOR BOTH WORKER PROTECTION AND HAZARDOUS MATERIALS DISPOSAL.

**CUTTING STEEL WITH LEAD/CHROMATE PAINT:** IF BEARINGS COATED WITH LEAD AND/OR CHROMATE-BASED PAINTS ARE TO BE SEVERED USING THERMAL CUTTING METHODS, THE AREAS TO BE CUT SHALL FIRST BE CLEANED TO BARE METAL BY ABRASION.

**FINISHING CONCRETE SURFACES:** CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.01.




PRE-DRILLED PILE DETAILS




SECTION "X" - "X"

ABUTMENT PILES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS ON THIS SHEET.

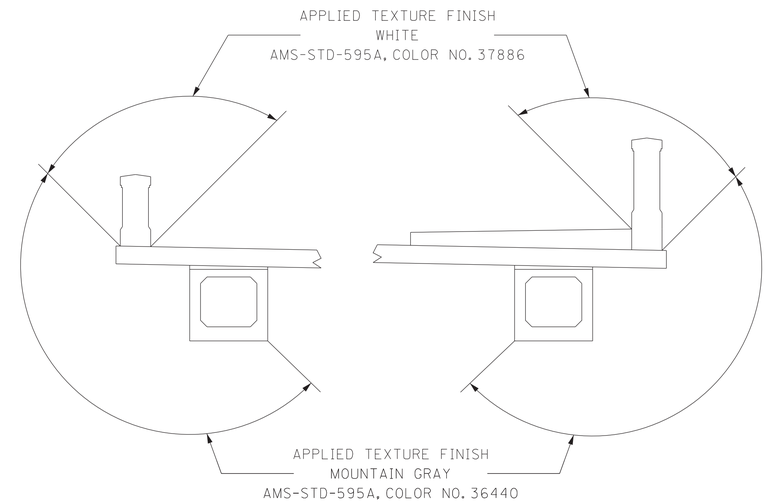
1. A 2'-0" DIAMETER HOLE (10'-0" MINIMUM IN LENGTH) SHALL BE DRILLED IN THE PLANS LOCATION FOR THE PILE. THE AMOUNT OF CORE DRILLING (SOIL) AND CORE DRILLING (ROCK) WILL VARY DUE TO LOCATION OF ROCK LINE.

2. THE HOLE SHALL BE THOROUGHLY CLEANED OF ALL LOOSE MATERIAL, MINIMUM OF 12 INCHES OF HIGH EARLY STRENGTH CONCRETE PLACED IN THE BOTTOM OF THE HOLE, THE PILE INSERTED AND CENTERED IN THE HOLE, AND THE PILE SUPPORTED UNTIL THE CONCRETE REACHES ITS INITIAL SET STRENGTH.

3. AS SOON AS THE CONCRETE HAS OBTAINED ITS INITIAL SET AND IT IS ABLE TO STABILIZE THE PILE TIP LOCATION IN THE BOTTOM OF THE HOLE, THE HOLE SHALL BE BACKFILLED WITH PEA GRAVEL. THE TOP OF THE PILE SHALL BE BRACED IN A MANNER SO THAT ITS VERTICAL POSITION IN THE CENTER OF THE HOLE IS MAINTAINED.

4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS SO AS NOT TO DAMAGE THE EXISTING BRIDGE FOUNDATION DURING PILE PRE-DRILLING. CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR ANY DAMAGED AREAS.

**BASIS FOR PAYMENT:** THE COST OF ALL MATERIAL AND LABOR FOR DRILLING THE 2'-0" HOLES, PILE END ENCASEMENT, BACKFILLING WITH PEA GRAVEL, BRACING OF THE PILES, AND ANY OTHER INCIDENTALS REQUIRED FOR FULL INSTALLATION OF THE PILES SHALL BE INCLUDED IN ITEM NO. 606-02.03.




APPLIED TEXTURE FINISH SKETCH

**TEXTURE FINISH:** IN ADDITION TO THE SURFACES SHOWN IN THE APPLIED TEXTURE FINISH SKETCH, ALL EXPOSED SURFACES OF THE WINGWALLS, ABUTMENT BEAMS, PIERS, AND EXTERIOR PORTIONS OF THE ENDWALLS SHALL RECEIVE AN APPLIED TEXTURE FINISH, (GRAY, AMS-STD-595A, COLOR NO. 36440).

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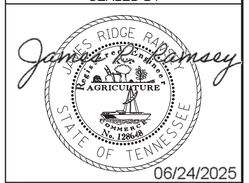


| | | | |
|---|---|---|---|
| PIN NO.: | 124563.00 | | |
| DESIGN BY: | RIDGE RAMSEY | DATE: | 07/2024 |
| DRAWN BY: | RIDGE RAMSEY | DATE: | 07/2024 |
| SUPERVISED BY: | DAWOD BERWARY | DATE: | 07/2024 |
| CHECKED BY: | DAWOD BERWARY | DATE: | 08/2024 |

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
STATE ROUTE 71 (U.S. 321) OVER
WEST FORK LITTLE PIGEON RIVER
BRIDGE I.D. NO. 78SR0710039
STATION 109+83.00
LOG MILE 21.00
SEVIER COUNTY
2025

U-94-743

CONST. NO.: 78008-3264-94

| PROJECT NO. | YEAR | SHEET NO. |
|---|---|---|
| BR-NH-71(39) | 2025 | B4 |

REVISIONS

| NO. | DATE | BY | BRIEF DESCRIPTION |
|---|---|---|---|
| 1 | 6-24-2025 | RR | REVISED CORE DRILLING & SAMPLING QTY. |
| | - - | | |
| | - - | | |
| | - - | | |
| | - - | | |

## 1 ESTIMATED QUANTITIES

| | ITEM NO. | DESCRIPTION | UNIT | TOTAL | SUPERSTRUCTURE | ABT. NO. 1 | PIER NO. 1 | PIER NO. 2 | PIER NO. 3 | PIER NO. 4 | PIER NO. 5 | ABT. NO. 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (2), (3) | 202-01.02 | REMOVAL OF ASBESTOS | L.S. | 1 | | | | | | | | |
| (2) | 202-04.01 | REMOVAL OF STRUCTURES | L.S. | 1 | | | | | | | | |
| (4) | 204-02.01 | DRY EXCAVATION (BRIDGES) | C.Y. | 638 | | 305 | | | | | | 333 |
| (14) | 204-05.01 | CORE DRILLING AND SAMPLING | L.F. | 645 | | | 135 | 110 | 120 | 140 | 140 | |
| | 204-14 | CORE DRILLING FOR PILES (ROCK) | L.F. | 219 | | 110 | | | | | | 109 |
| | 204-15 | CORE DRILLING FOR PILES (SOIL) | L.F. | 479 | | 227 | | | | | | 252 |
| (10) | 303-01.02 | GRANULAR BACKFILL (BRIDGES) | TON | 128 | | 64 | | | | | | 64 |
| (9) | 604-02.03 | EPOXY COATED REINFORCING STEEL | LB. | 218963 | 212171 | 3374 | | | | | | 3418 |
| (8) | 604-03.01 | CLASS "A" CONCRETE (BRIDGES) | C.Y. | 817 | 91 | 119 | 94 | 102 | 101 | 99 | 98 | 113 |
| (9) | 604-03.02 | STEEL BAR REINFORCEMENT (BRIDGES) | LB. | 153613 | 7945 | 14559 | 22093 | 24083 | 23911 | 23354 | 23255 | 14413 |
| (1) | 604-03.04 | PAVEMENT AT BRIDGE ENDS | S.Y. | 332 | | | | | | | | |
| | 604-03.32 | CLASS "DS" CONCRETE (BRIDGE DECK) | C.Y. | 776 | 776 | | | | | | | |
| | 604-04.01 | APPLIED TEXTURE FINISH (NEW STRUCTURES) | S.Y. | 2745 | 1514 | 55 | 204 | 230 | 249 | 219 | 217 | 57 |
| | 604-05.31 | BRIDGE DECK GROOVING (MECHANICAL) | S.Y. | 2541 | | | | | | | | |
| | 606-02.03 | STEEL PILES (10 INCH) | L.F. | 744 | | 360 | | | | | | 384 |
| (11) | 606-02.06 | PILE TIPS (STEEL PILES, 10 INCH) | EA. | 48 | | 24 | | | | | | 24 |
| | 610-10.45 | DECK DRAINS (GRATE TYPE 1) | EA. | 6 | | | | | | | | |
| | 610-10.46 | DECK DRAINS (GRATE TYPE 2) | EA. | 9 | | | | | | | | |
| (6) | 615-02.05 | PRESTRESSED CONCRETE BOX BEAM (33" X 36") | L.F. | 2646 | | | | | | | | |
| (12) | 617-02 | BRIDGE DECK CRACK SEALANT | L.F. | 444 | | | | | | | | |
| (12) | 617-05 | SEALANT (HMWM) | GAL. | 3 | | | | | | | | |
| | 620-05.02 | STANDARD CONCRETE CLASSIC PARAPET RAIL | L.F. | 835 | | | | | | | | |
| | 621-05.02 | TEMPORARY SHORING | L.S. | 1 | | | | | | | | |
| (16) | 625-01.10 | CAMERA INSPECTION - DRILLED SHAFT (DRY) | EA. | 15 | | | 5 | | | 5 | 5 | |
| (16) | 625-01.11 | CAMERA INSPECTION - DRILLED SHAFT (UNDERWATER) | EA. | 10 | | | | 5 | 5 | | | |
| (13) | 625-02.01 | DRILLED SHAFT - SOIL (4'-6" DIA.) | V.F. | 210 | | | 45 | 20 | 45 | 50 | 50 | |
| (13) | 625-02.13 | DRILLED SHAFT - ROCK (4'-0" / 4'-6" DIA.) | V.F. | 200 | | | 40 | 40 | 40 | 40 | 40 | |
| (17) | 625-02.25 | DRILLED SHAFT CASING - PERMANENT (4'-6" INSIDE DIA.) | V.F. | 210 | | | 45 | 20 | 45 | 50 | 50 | |
| (18) | 625-02.40 | DRILLED SHAFT (SH-SCC) CONCRETE | C.Y. | 221 | | | 46 | 31 | 46 | 49 | 49 | |
| | 625-02.44 | DRILLED SHAFT REINFORCING STEEL | LB. | 51380 | | | 10488 | 8420 | 10542 | 10974 | 10956 | |
| (7) | 710-09.01 | 6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM | L.F. | 287 | | 144 | | | | | | 143 |
| | 710-09.02 | 6" PIPE UNDERDRAIN | L.F. | 42 | | 21 | | | | | | 21 |

(1) **NOTE:** PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL.

(2) **NOTE:** LUMP SUM (7 SPANS AT 28'-6", 34'-6" OUT-TO-OUT WIDTH, CONCRETE DECK GIRDER SUPERSTRUCTURE WITH CONCRETE SUBSTRUCTURES, BRIDGE I.D. NO. 78SR0710039, EXISTING LAYOUT DWG. NO. E-10-96).

(3) **NOTE:** SEE PROJECT COMMITMENTS AND SPECIAL PROVISION 202ACM.

(4) **NOTE:** EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS.

(5) **NOTE:** THE COST OF BITUMINOUS-FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

(6) **NOTE:** COST OF ELASTOMERIC PADS AND RUBBER BONDING CEMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE PRESTRESSED BEAM.

(7) **NOTE:** COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN THE UNIT PRICE BID FOR PERFORATED PIPE.

(8) **NOTE:** THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION OF 105 ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CLASS A CONCRETE (BRIDGES), ITEM NO. 604-03.01.

(9) **NOTE:** MECHANICAL BAR SPLICERS MUST BE ON THE TDOT QUALIFIED PRODUCTS LIST 27. THE BAR SPLICERS SHALL MEET AASHTO LRFD SPECIFICATIONS FOR MECHANICAL CONNECTION. WHEN EPOXY COATING IS REQUIRED, THE EXPOSED THREADS SHALL BE REPAIRED AFTER SPLICING ACCORDING TO SECTION 907 OF THE STANDARD SPECIFICATIONS. THE COST OF FURNISHING THE BAR SPLICERS, (AND EPOXY COATING WHEN REQUIRED) INCLUDING ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-02.03 AND ITEM NO. 604-03.02.

(10) **NOTE:** GRANULAR BACKFILL SHALL BE TYPE "A" GRADING "D" MATERIAL. SEE STANDARD DRAWING STD-10-1.

(11) **NOTE:** THE UNIT PRICE BID FOR THE CAST STEEL POINTS SHALL INCLUDE FURNISHING AND INSTALLATION TO THE PILES.

(12) **NOTE:** INCLUDES ALL COSTS FOR INSTALLING THE BRIDGE DECK CRACK SEALER (HMWM) INCLUDING CRACK PREPARATION, CLEANING, LABOR, AND ALL MISCELLANEOUS MATERIALS REQUIRED TO SEAL THE LONGITUDINAL CONSTRUCTION JOINT ACCORDING TO SPECIAL PROVISION 604CR AND MANUFACTURERS' SPECIFICATIONS. CRACK SEALING SHALL BE DONE AT THE END OF CONSTRUCTION TO ALLOW SHRINKAGE OF DECK CONCRETE CAUSING THE CRACK TO OCCUR.

(13) **NOTE:** THE COST OF THE FOLLOWING ITEMS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NOS. 625-02.01 AND 625-02.13:

1. DRILLING THE SHAFT
2. CLEANING AND INSPECTING THE SHAFT
3. INSTALLATION OF ALL CASING AND/OR SLURRY, IF USED. NO PAYMENT WILL BE MADE FOR TEMPORARY CASING WHICH CANNOT BE REMOVED.
4. INSTALLATION OF 1.5" DIAMETER PIPES IN SHAFTS FOR CSL TESTING. 4 CSL TUBES ARE REQUIRED PER SHAFT AT ALL PIERS.

(14) **NOTE:** SEE ARTICLE 625.31 OF THE SPECIAL PROVISION. THE INTENT IS FOR THE CORE DRILLING AND SAMPLING TO BE PERFORMED PRIOR TO SHAFT DRILLING. SUBJECT TO THE APPROVAL FROM THE GEOTECHNICAL ENGINEER, THESE CORES ARE TO BE USED TO PRE-DETERMINE ACCEPTABLE SHAFT TIP ELEVATIONS. CORES SHALL EXTEND 10'-0" BELOW ESTIMATED TIP ELEVATIONS SHOWN ON THE PLANS. 1 CORE IS REQUIRED PER SHAFT.

(15) **NOTE:** CSL TESTING WITH THE ADDITION OF 3D TOMOGRAPHY SHALL BE PERFORMED ON ALL SHAFTS. THE CSL TESTING FIRM MUST BE PRESENT FOR ALL SHAFT POURS.

(16) **NOTE:** THE INTENT IS TO VERIFY THAT THE SHAFT TIP AND SIDE WALLS OF THE SOCKET ARE CLEAN AND INTACT.

(17) **NOTE:** THE CONTRACTOR SHALL USE PERMANENT CASING. THE STRUCTURAL CAPACITY OF THE CASING IS NOT INCORPORATED INTO THE DESIGN.

(18) **NOTE:** DRILLED SHAFT CONCRETE SHALL BE CLASS SH-SCC.

**ESTIMATED ELEVATIONS TABLE**

| | EXISTING GROUND ELEV. | TOP OF DRILLED SHAFT | TOP OF SOUND ROCK | BOTTOM OF ROCK SOCKET | BOTTOM OF CORE | DISTANCE FROM GROUND TO BOTTOM OF CORE |
|---|---|---|---|---|---|---|
| PIER NO. 1 | 1038.00 | 1038.00 | 1029.00 | 1021.00 | 1011.00 | 27.00 |
| PIER NO. 2 | 1034.00 | 1034.00 | 1030.00 | 1022.00 | 1012.00 | 22.00 |
| PIER NO. 3 | 1031.00 | 1034.00 | 1025.00 | 1017.00 | 1007.00 | 24.00 |
| PIER NO. 4 | 1035.00 | 1035.00 | 1025.00 | 1017.00 | 1007.00 | 28.00 |
| PIER NO. 5 | 1035.00 | 1035.00 | 1025.00 | 1017.00 | 1007.00 | 28.00 |

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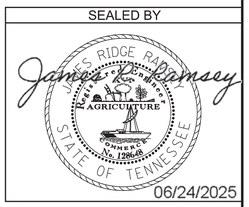



06/24/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES
STATE ROUTE 71 (U.S. 321) OVER
WEST FORK LITTLE PIGEON RIVER
BRIDGE I.D. NO. 78SR0710039
STATION 109+83.00
LOG MILE 21.00
SEVIER COUNTY
2025

U-94-744

PIN NO.: 124563.00
DESIGN BY: RIDGE RAMSEY DATE: 07/2024
DRAWN BY: RIDGE RAMSEY DATE: 07/2024
SUPERVISED BY: DAWOD BERWARY DATE: 07/2024
CHECKED BY: DAWOD BERWARY DATE: 08/2024

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| | | | |
| PS&E | 2025 | BR-NH-71(39) | U3-2 |
| | | | |
| | | | |

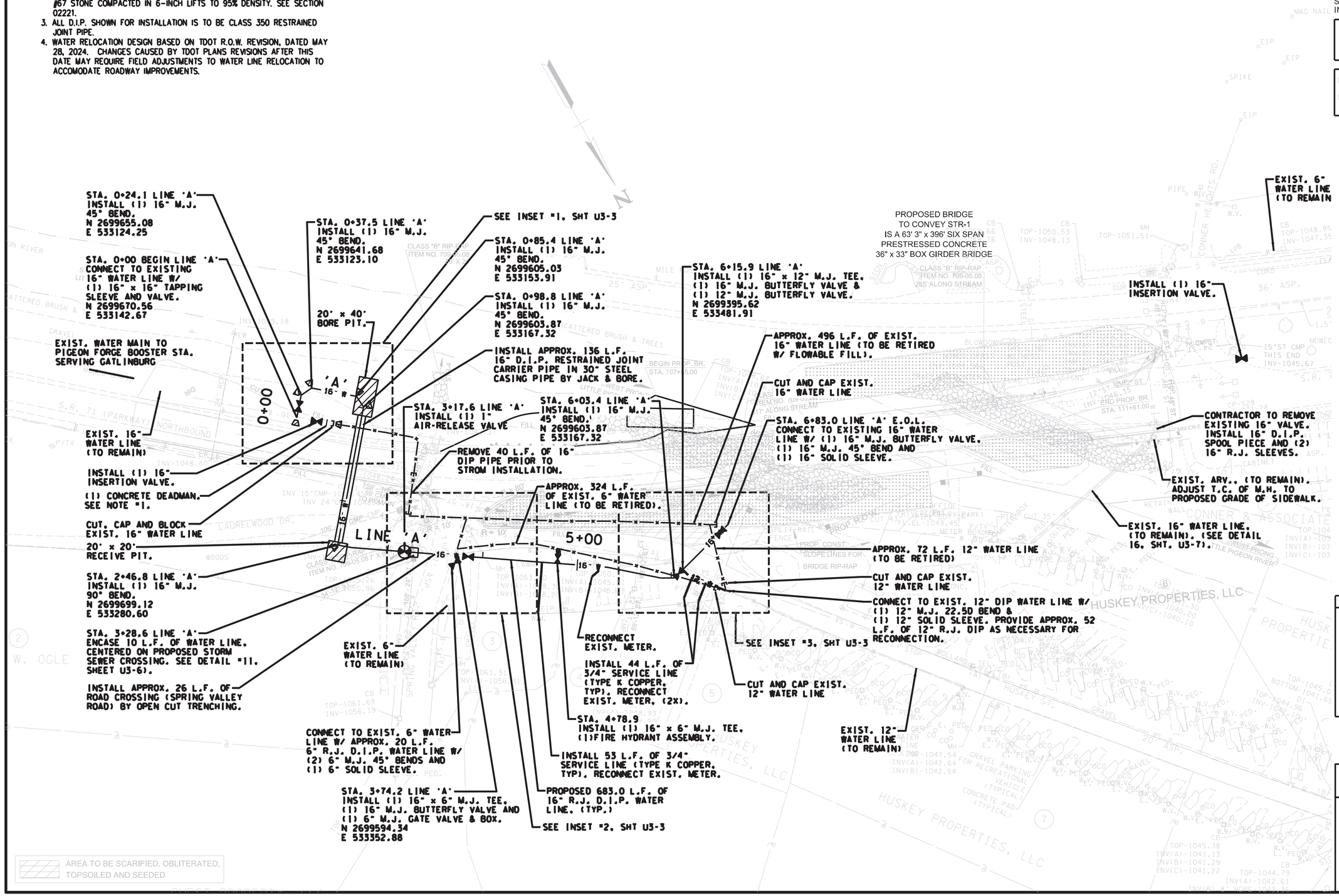
REV. 09/13/21: REVISED TRACTS 5 & 6 PROPERTY OWNER NAMES AND SCARIFICATION AREA. ADDED CHAIN INFORMATION FOR HUSKEY STREET.

SEVIER COUNTY
PIN 124563.00
CCI NO. 00367-0020

B-DATE SUBMITTAL
DATE: 04/14/2025
BASED ON T.D.O.T. PLANS
REVISION FROM 05/28/2024.

UTILITY NOTES:

1. CONCRETE "DEAD MAN" TO BE INSTALLED PRIOR TO THE INSTALLATON OF INSERTION VALVES OR CUTTING & CAPPING EXISTING WATER MAINS. CONNECT THREADED RODS FROM CAP/FITTING TO CONCRETE DEADMAN. SEE DETAIL #15, SHT. U3-7.
2. BACKFILL OF ALL PIPES SHALL OCCUR BEFORE VALVE CLOSURE AND PIPE CAPPING OCCURS. ALL OPEN CUT TRENCHING SHALL BE BACKFILLED WITH #67 STONE COMPACTED IN 6-INCH LIFTS TO 95% DENSITY. SEE SECTION 02221.
3. ALL D.I.P. SHOWN FOR INSTALLATION IS TO BE CLASS 350 RESTRAINED JOINT PIPE.
4. WATER RELOCATION DESIGN BASED ON TDOT R.O.W. REVISION, DATED MAY 28, 2024. CHANGES CAUSED BY TDOT PLANS REVISIONS AFTER THIS DATE MAY REQUIRE FIELD ADJUSTMENTS TO WATER LINE RELOCATION TO ACCOMODATE ROADWAY IMPROVEMENTS.




YEARS OF FORGING PROGRESS
PIGEON FORGE
T·E·N·N·E·S·S·E

# WATER LINE RELOCATION BY


CANNON & CANNON INC
10025 Investment Drive, Suite 120
Knoxville, TN 37932
865.670.8555
www.cci-corp.com


# WATER PLANS

SEALED BY

WILLIAM W. LITTLEJOHN
REGISTERED ENGINEER
AGRICULTURE
No. 120419
STATE OF TENNESSEE
04/14/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

## WATER LINE RELOCATION

STA.102+00 TO STA.113+10
SCALE: 1"=50'

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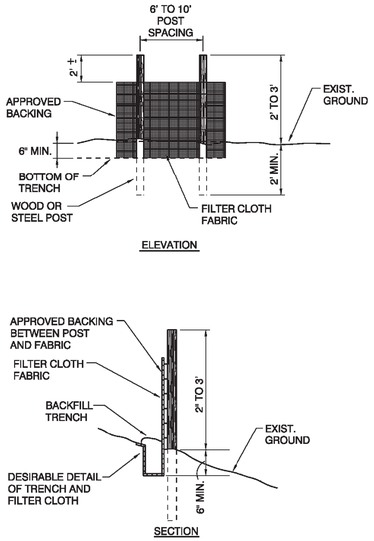
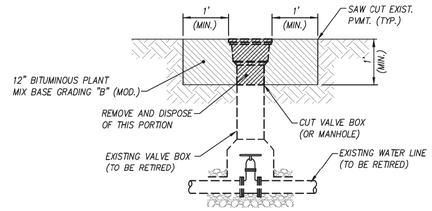


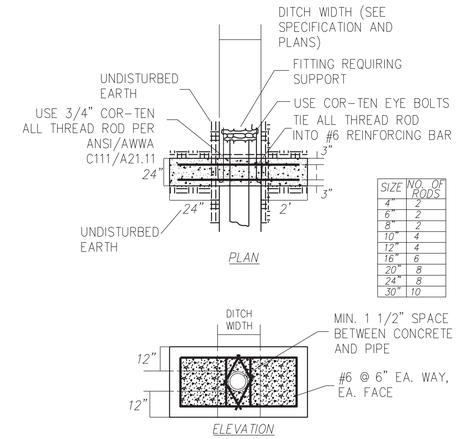

13 - **TEMPORARY SILT FENCE**
N.T.S.




NOTES:

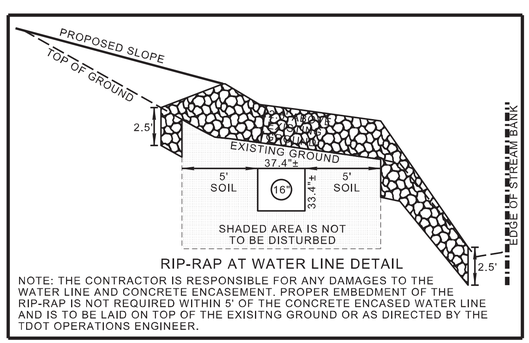
1. AFTER EXISTING WATER LINE(S) HAVE BEEN RETIRED, SAW CUT EXISTING PAVEMENT A MINIMUM OF 1 FOOT BEYOND THE OUTSIDE EDGE OF VALVE (OR STRUCTURE) TO A MINIMUM DEPTH OF 1 FOOT.
2. CUT VALVE BOX (OR MANHOLE) AT 1 FOOT BELOW GRADE, REMOVE TOP PORTION, AND DISPOSE OF REMOVED MATERIAL PROPERLY. CONTRACTOR MAY REMOVE ENTIRE TOP SECTION OF VALVE BOX (OR MANHOLE) WITHOUT CUTTING IF APPROPRIATE, AT NO ADDITIONAL COST TO OWNER.
3. PROVIDE #57 CRUSHED STONE FOR LEVELING COURSE TO 1 FOOT BELOW GRADE.
4. WHEN A TEMPORARY ASPHALT PATCH IS USED, IT SHALL BE PLACED IMMEDIATELY AFTER CRUSHED STONE BACKFILL. ALL TEMPORARY REPAIRS MUST BE REPLACED PERMANENTLY WITHIN 90 DAYS.

14 - **TYPICAL VALVE BOX & MANHOLE RETIREMENT DETAIL**
N.T.S.




| SIZE | NO. OF RODS |
|---|---|
| 4" | 2 |
| 6" | 2 |
| 8" | 2 |
| 10" | 4 |
| 12" | 4 |
| 16" | 6 |
| 20" | 8 |
| 24" | 8 |
| 30" | 10 |

15 - **CONCRETE DEADMAN**
N.T.S.




RIP-RAP AT WATER LINE DETAIL

NOTE: THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO THE WATER LINE AND CONCRETE ENCASEMENT. PROPER EMBEDMENT OF THE RIP-RAP IS NOT REQUIRED WITHIN 5' OF THE CONCRETE ENCASED WATER LINE AND IS TO BE LAID ON TOP OF THE EXISITNG GROUND OR AS DIRECTED BY THE TDOT OPERATIONS ENGINEER.

16 - **WATER LINE STREAM BANK PROTECTION DETAIL**
N.T.S.

| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|---|---|---|---|
| | | | |
| PS&E | 2025 | BR-NH-71(39) | U3-7 |
| | | | |
| | | | |

REV. 09/13/21: REVISED TRACTS 5 & 6 PROPERTY OWNER NAMES AND SCARIFICATION AREA. ADDED CHAIN INFORMATION FOR HUSKEY STREET.

SEVIER COUNTY
PIN 124563.00
CCI NO. 00367-0020

B-DATE SUBMITTAL
DATE: 04/14/2025
BASED ON T.D.O.T. PLANS
REVISION FROM 05/28/2024.

PIGEON FORGE
YEARS OF FORGING PROGRESS
T·E·N·N·E·S·S·E·E

WATER LINE RELOCATION BY

CANNON & CANNON INC
10025 Investment Drive, Suite 120
Knoxville, TN 37932
865.670.8555
www.cci-corp.com

WATER PLANS

SEALED BY

WILLIAM W. LITTLEJOHN
REGISTERED ENGINEER
AGRICULTURE
No. 120419
STATE OF TENNESSEE
04/14/2025

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0001 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID 12B.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

WATER LINE DETAILS

4/15/2025 4:29:27 PM
Z:\00367-0020\03-Drawings\03-Utilities\B Date\WATER\Detail 3.SHT